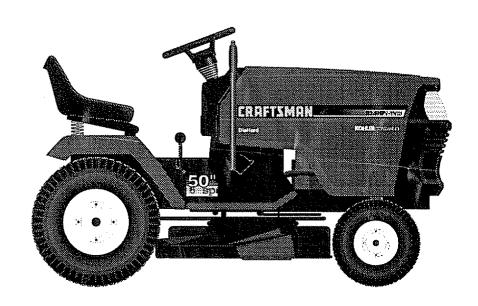
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SEARS

CRAFIX MAR

MODEL NUMBER 917.251551 OWNER'S MANUAL

- Assembly
- Operation
- Customer Responsibilities
- Service and Adjustments
- Repair Parts



CAUTION: Read and follow all safety rules and instructions before operating this equipment.
FOR CONSUMER ASSISTANCE HOT LINE, CALL THIS TOLL FREE NUMBER: 1-800-659-5917



SAFETY RULES

Safe Operation Practices for Ride-On Mowers



IMPORTANT: THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS. FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

I. GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.

II. SLOPE OPERATION

Slopes are a major factor related to loss-of-control and tipover accidents, which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

DO:

- Mow up and down slopes, not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. Tall grass can hide obstacles.
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
- Use extra care with grass catchers or other attachments.
 These can change the stability of the machine.
- Keep all movement on the slopes slow and gradual. Do not make sudden changes in speed or direction.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly straight down the slope.

DO NOT:

- Do not turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- Do not mow near drop-offs, ditches, or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- Do not mow on wet grass. Reduced traction could cause sliding.
- Do not try to stabilize the machine by putting your foot on the ground.
- Do not use grass catcher on steep slopes.

III. CHILDREN

Tragic accidents can occur if the operator is not alert to the presence of children. Children are often attracted to the machine and the mowing activity. *Never* assume that children will remain where you last saw them.

- Keep children out of the mowing area and under the watchful care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and down for small children.
- Never carry children. They may fall off and be seriously injured or interfere with safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs, trees, or other objects that may obscure vision.

IV. SERVICE

- Use extra care in handling gasoline and other fuels. They are flammable and vapors are explosive.
 - Use only an approved container.
 - Never remove gas cap or add fuel with the engine running. Allow engine to cool before refueling. Do not smoke.
 - Never refuel the machine indoors.
 - Never store the machine or fuel container inside where there is an open flame, such as a water heater.
- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tight and keep equipment in good condition.
- Never tamper with safety devices. Check their proper operation regularly.
- Keep machine free of grass, leaves, or other debris build-up. Clean oil or fuel spillage. Allow machine to cool before storing.
- Stop and inspect the equipment if you strike an object. Repair, if necessary, before restarting.
- Never make adjustments or repairs with the engine running.
- Grass catcher components are subject to wear, damage, and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.



Look for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.



CAUTION: Always disconnect spark plug wire and place wire where it cannot contact spark plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs.



The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

CONGRATULATIONS on your purchase of a Sears Tractor. It has been designed, engineered and manufactured to give you the best possible dependability and performance.

Should you experience any problem you cannot easily remedy, please contact your nearest Sears Authorized Service Center/Department. We have competent, well-trained technicians and the proper tools to service or repair this tractor.

Please read and retain this manual. The instructions will enable you to assemble and maintain your unit properly. Always observe the "SAFETY RULES".

MODEL NUMBER	917.251551
SERIAL NUMBER	
DATEOFPUR	CHASE
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	ND SERIAL NUMBERS WILL BE FOUND UNDER THE SEAT.
DATE OF PU	RECORD BOTH SERIAL NUMBER AND RCHASE AND KEEP IN A SAFE PLACE REFERENCE.

MAINTENANCE AGREEMENT

A Sears Maintenance Agreement is available on this product. Contact your nearest Sears store for details.

CUSTOMER RESPONSIBILITIES

- · Read and observe the safety rules.
- Follow a regular schedule in maintaining, caring for and using your tractor.
- Follow the instructions under "Customer Responsibilities" and "Storage" sections of this owner's manual.

WARNING: This tractor is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-cov-

PRODUCT SPECIFICATIONS

HORSEPOWER:	22.5			
GASOLINE CAPACITY AND TYPE:	3.5 GALLONS UNLEADED REGULAR			
OIL TYPE (API-SF/SG):	SAE 10W30 (above 32°F) SAE 5W-30 (below 32°F)			
OIL CAPACITY:	W/ FILTER: 4.2 PINTS W/O FILTER: 3.7 PINTS			
SPARK PLUG: (GAP: .030")	CHAMPION RC12YC			
VALVE CLEARANCE:	NOT ADJUSTABLE			
GROUND SPEED (MPH):	Forward LO HI 1st 0.7 1.7 2nd 1.4 3.3 3rd 2.3 5.4 Reverse 0.9 2.1			
TRANSAXLE OIL CAPACITY AND TYPE:	4 QUARTS SAE 30 API-SG			
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI			
CHARGING SYSTEM:	15 AMPS @ 3600 RPM			
BATTERY:	AMP/HR: 35 MIN_CCA: 280 CASE SIZE: U1R			
BLADE BOLT TORQUE:	30-35 FT. LBS.			

ered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest Sears Authorized Service Center/Department (See REPAIR PARTS section of this manual).

LIMITED TWO YEAR WARRANTY ON ELECTRIC START RIDING EQUIPMENT

For two (2) years from the date of purchase, if this riding equipment is maintained, lubricated and tuned up according to the instructions in the owner's manual, Sears will repair or replace, free of charge, any parts found to be defective in material or workmanship

This Warranty does not cover:

- Expendable items which become worn during normal use, such as blades, spark plugs, air cleaners and belts.
- · Tire replacement or repair caused by punctures from outside objects, such as nails, thorns, stumps, or glass.
- Repairs necessary because of operator abuse, negligence, improper storage or accident or the failure to maintain the
 equipment according to the instructions contained in the owner's manual.
- Riding equipment used for commercial or rental purposes.

LIMITED 90 DAY WARRANTY ON BATTERY

For ninety (90) days from date of purchase, if any battery included with this riding equipment proves defective in material or workmanship and our testing determines the battery will not hold a charge, Sears will replace the battery at no charge.

WARRANTY SERVICE IS AVAILABLE BY RETURNING THE RIDING EQUIPMENT TO THE NEAREST SEARS SERVICE CENTER/DEPARTMENT IN THE UNITED STATES.

This Warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

SEARS, ROEBUCK AND CO., D/817 WA, HOFFMAN ESTATES, ILLINOIS 60179

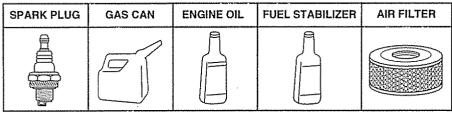
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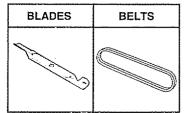
ACCESSORIES AND ATTACHMENTS

These accessories and attachments were available through most Sears retail outlets and service centers when the tractor was purchased. Most Sears stores can order these items for you when you provide the model number of your tractor.

ENGINE



MAINTENANCE



PERFORMANCE

Sears offers a wide variety of attachments that fit your tractor. Many of these are listed below with brief explanations of how they can help you. This list was current at the time of publication; however, it may change in future years - more attachments may be added, changes may be made in these attachments, or some may no longer be available or fit your model. Contact your nearest Sears store for the accessories and attachments that are available for your tractor.

Most of these attachments do not require additional hitches or conversion kits (those that do are indicated) and are designed for easy attaching and detaching.

AERATOR promotes deep root growth for a healthy lawn. Tapered 2.5-inch steel spikes mounted on 10-inch diameter discs puncture holes in soil at close intervals to let moisture soak in. Steel weight tray for increased penetration.

BUMPER protects front end of tractor from damage

CARTS make hauling easy Variety of sizes available, plus accessories such as side panel kits, tool caddy, cart cover, protective mat and dolly

CORING AERATOR takes small plugs out of soil to allow moisture and nutrients to reach grass roots. 36-inch swath. 24 hardened steel coring tips 150 lb. capacity weight tray.

DISC HARROW has 2 gangs of 4 steel blades that angle from 10 to 20 degrees, 40 inches wide. Can hook 2 units in tandem. (Requires sleave hitch.)

DOZER BLADE removes snow; grades dirt, sand and gravel 48 inches wide, 17 inches high, clears 44-inch path when angled. Master lift control lever for operator ease. Spring trip for snow removal on uneven pavement; built-in float for blade to follow ground contour. Reversible, replaceable scraper bar. (Use with tire chains and wheel weights and/or rear drawbar weight.)

EASY OIL DRAIN VALVE makes oil changes easier, faster.

FRONT NOSE ROLLER canters in front of mower deck to reduce chances of "scalping" on uneven terrain.

GANG HITCH lets you tow 2 or 3 pull-behind attachments at once, such as sweepers, dethatchers, aerators (not for use with rollers, carts or other heavy attachments).

MULCH RAKE/DETHATCHER loosens soil and flips thatch and matted leaves to lawn surface for easy pickup. Twenty spring tine teeth. Useful to prepare bare areas for seeding. Available for front or rear mounting. HIGH PERFORMANCE REEL-ACTION SPRING TINE DETHATCHER covers 36-inch wide path and tosses thatch into large hopper. Mounts behind tractor.

PLOW turns soil 6 inches deep, cuts 10-inch furrow. Crank adjustment controls depth, 3-position yoke sets width. Heavy steel landside for straight furrowing. (Requires sleeve hitch.)

RAMP TOPS AND FEET let you load and unload tractor from a pickup truck. Use with 2 x 8 or 2 x 10 lumber.

REAR GRADER BLADE is 42 inches wide and operated from driver's seat. Reversible steel blade can be angled at 30 degrees for grading. Reverses for pushing snow backwards (Requires sleeve hitch.)

ROLLER for smoother lawn surface, 36-inch wide, 18-inch diameter water-tight drum holds up to 390 lbs. of weight. Rounded edges prevent harm to turf. Adjustable scraper automatically cleans drum

SLEEVE CULTIVATOR is 43 inches wide. Prepares ground for seeding, helps weed control. Steel frame holds 5 adjustable sweeps. Adjusts vertically, horizontally. (Requires sleeve hitch.) **Optional accessory:** steel furrow opener for wider openings for potatoes, corn, and other deep-seeded crops.

SLEEVE HITCH for use with master lift system. Single pin couples/uncouples

SNOWTHROWER has 42-inch swath. Drum-type auger handles powdery and wet/heavy snow. Mounts easily with simple pin arrangement. Discharge chute adjusts from tractor seat. 6-inch diameter spout discharges snow 10 to 50 feet. Lift controlled at tractor seat. (Use with chains and wheel weights and/or rear drawbar weight.)

SPRAYERS use 12-volt DC electric motor that connects to the tractor battery or other 12-volt source. Includes booms for automatic spraying and hand held wand for spot spraying. Wand has adjustable spray pattern. For applying herbicides, insecticides, fungicides and liquid fertilizers.

SPREADER/SEEDERS make seeding, fertilizing, and weed killing easy. Broadcast spreaders are also useful for granular de-icers and sand.

SWEEPERS let you collect grass clippings and leaves

TILLER has 8 hp engine to prepare seed beds, cultivate, and compost garden residue. Chain-drive transmission. Six 11-inch diameter one piece heat-treated steel tines. Tills 30-inch path. (Requires sleeve hitch.) Or use 5 hp tow-behind TILLER with 36-inch swath to prepare seed beds, cultivate and compost garden residue. Tiller has its own built-in lift and depth control system and does NOT require a sleeve hitch. Fits any lawn, yard or garden tractor. Simply hook up to the tractor drawbar and go! Optional accessories for 5 hp tiller convert unit for dethatching, aerating, hilling...without tools

TIRE CHAINS are heavy duty; closely spaced extra-large cross links give smooth ride, outstanding traction.

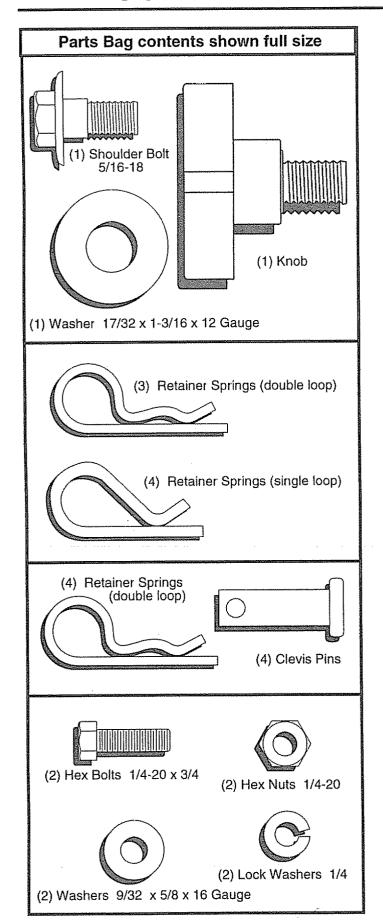
TRACTOR CAB has heavy duty vinyl fabric over tubular steel frame, ABS plastic top; clear plastic windshield offers 360 degree visibility. Hinged metal doors with catch. Keeps operator warm and dry. Remove vinyl sides and windshields for use as sun protector in summer. Optional accessories include: tinted/tempered solid safety glass windshield with hand operated wiper; 12-volt amber caution light for mounting on cab top.

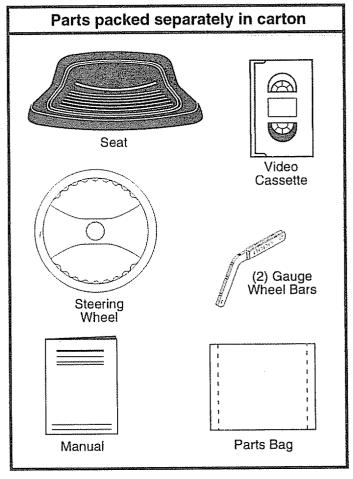
VACS for powerful collection of heavy grass clippings and leaves. Optional wand attachment to pick up debris in hard-to-reach places. VAC/CHIPPER includes a chipper-shredder.

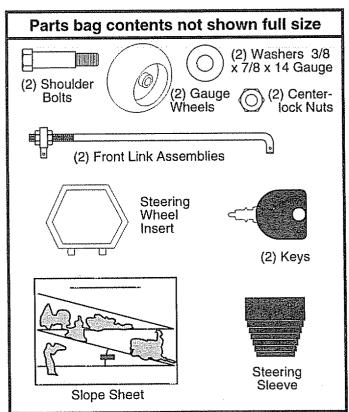
WEIGHT BRACKET for drawbar for snow removal applications. Can be mounted on front of tractor for plowing applications. Uses (1) 55 lb weight.

WHEEL WEIGHTS for rear wheels provide needed traction for snow removal or dozing heavy materials.

CONTENTS OF HARDWARE PACK







Your new tractor has been assembled at the factory with the exception of those parts left unassembled for shipping purposes. To ensure safe and proper operation of your tractor all parts and hardware you assemble must be tightened securely. Use the correct tools as necessary to insure proper tightness.

TOOLS REQUIRED FOR ASSEMBLY

A socket wrench set will make assembly easier. Standard wrench sizes are listed.

(2) 7/16" wrenches

Tire pressure gauge

(1) 1/2" wrench

. Utility knife

(1) 9/16" wrench

(1) 3/4" socket with drive ratchet

When right or left hand is mentioned in this manual, it means when you are in the operating position (seated behind the steering wheel).

TO REMOVE TRACTOR FROM CARTON

UNPACK CARTON

- Remove all accessible loose parts and parts cartons from carton (See page 6).
- Cut, from top to bottom, along lines on all four corners of carton, and lay panels flat.
- · Remove mower and packing materials.
- Check for any additional loose parts or cartons and remove.

BEFORE ROLLING TRACTOR OFF SKID

ATTACH STEERING WHEEL (See Fig. 1)

- Remove hex bolt, lock washer and large flat washer from steering shaft.
- Position front wheels of the tractor so they are pointing straight forward.
- Slide steering sleeve over steering shaft.
- Position steering wheel so cross bars are horizontal (left to right) and slide onto steering wheel adapter.
- Secure steering wheel to steering shaft with hex bolt, lock washer and large flat washer previously removed. Tighten securely.
- Snap steering wheel insert into center of steering wheel.
- Remove protective plastic from tractor hood and grill.

IMPORTANT: CHECK FOR AND REMOVE ANY STAPLES IN SKID THAT MAY PUNCTURE TIRES WHERE TRACTOR IS TO ROLL OFF SKID.

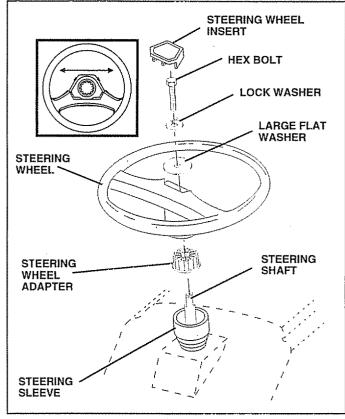


FIG. 1

TO ROLL TRACTOR OFF SKID (See Operation section for location and function of controls)

- Press lift lever plunger and raise attachment lift lever to its highest position.
- Release parking brake by depressing clutch/brake pedal.
- Place gearshift lever in neutral (N) position.
- · Roll tractor forward off skid.
- · Remove mower and packing materials.
- Remove ties from V-belts.

CONNECT BATTERY (See Fig. 2)



CAUTION: Do not short battery terminals. Before connecting battery, remove metal bracelets, wristwatch bands, rings, etc.

Positive terminal must be connected first to prevent sparking from accidental grounding.

- Lift hood to raised position.
- Open terminal access doors, remove terminal protective caps and discard.
- If this battery is put into service after month and year indicated on label (label located between terminals) charge battery for minimum of one hour at 6-10 amps.
- First connect RED battery cable to positive (+) battery terminal with hex bolt, flat washer, lock washer and hex nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt, flat washer, lock washer and hex nut. Tighten securely.
- Close terminal access doors.

Use terminal access doors for:

- Inspection for secure connections (to tighten hardware).
- Inspection for corrosion.
- · Testing battery.
- Jumping (if required).
- Periodic charging.

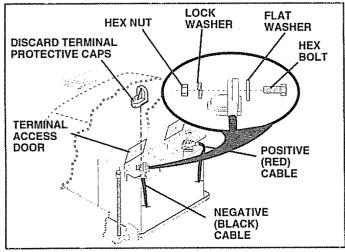


FIG. 2

INSTALL SEAT (See Fig. 3)

Adjust seat before tightening adjustment knob.

- Remove cardboard packing on seat pan.
- Place seat on seat pan and assemble shoulder bolt.
- Assemble adjustment knob and flat washer loosely. Do not tighten.
- Tighten shoulder bolt securely.
- Lower seat into operating position and sit on seat.
- Slide seat until a comfortable position is reached which allows you to press clutch/brake pedal all the way down.
- Get off seat without moving its adjusted position.
- Raise seat and tighten adjustment knob securely.

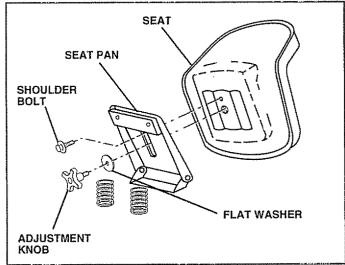


FIG. 3

CHECK TIRE PRESSURE

The tires on your tractor were overinflated at the factory for shipping purposes. Correct tire pressure is important for best cutting performance.

 Reduce tire pressure to PSI shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

CHECK BRAKE SYSTEM

After you learn how to operate your tractor, check to see that the brake is properly adjusted. See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual.

INSTALL MOWER AND DRIVE BELT (See Figs. 4 and 5)

Be sure tractor is on level surface and mower suspension arms are raised with attachment lift control. Engage parking brake.

- Cut and remove ties securing anti-sway bar and belts.
 Swing anti-sway bar to left side of mower deck.
- Slide mower under tractor with discharge guard to right side of tractor.

IMPORTANT: CHECK BELT FOR PROPER ROUTING IN ALL MOWER PULLEY GROOVES. INSTALL BELT INTO ELECTRIC CLUTCH PULLEY GROOVE.

- Install one front link in top hole of the L.H. front mower bracket and L.H. front suspension bracket. Retain with two single loop retainer springs as shown.
- Install second front link in R.H. front suspension bracket only and retain with single loop retainer spring as shown.
- Slide right side of mower back and install link in top hole of R.H. front mower bracket. Retain with single loop retainer spring as shown.
- Turn height adjustment knob counterclockwise until it stops.
- Lower mower linkage with attachment lift control.
- Place the suspension arms on inward pointing deck pins. If necessary, rock and raise front of mower to align deck pins with the holes in suspension arms.

Retain with double loop retainer springs with loops down as shown.

- Connect anti-sway bar to chassis bracket under left footrest and retain with double loop retainer spring.
- Turn height adjustment knob clockwise to remove slack from mower suspension.
- Raise deck to highest position.
- Assemble gauge wheel bars to brackets using clevis pins and double loop retainer springs.
- Assemble gauge wheels as shown using long shoulder bolts, 3/8 washers, and 3/8-16 center locknuts. Tighten securely.
- Adjust gauge wheels before operating mower as shown in the Operation section of this manual.

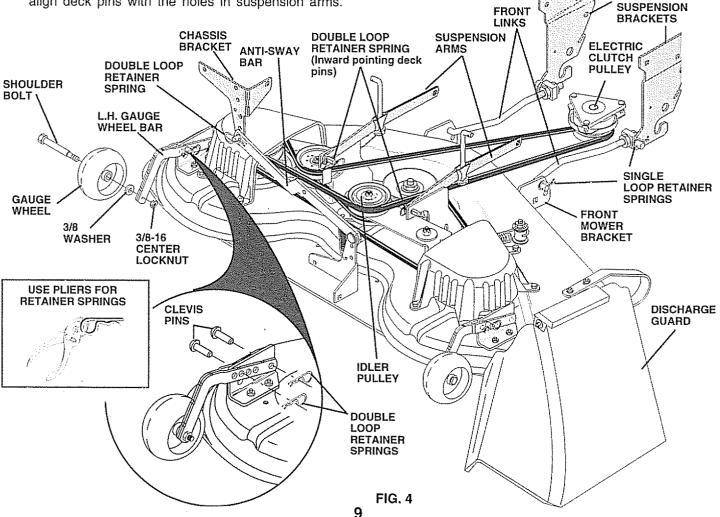
CHECK MOWER LEVELNESS

For best cutting results, mower should be properly leveled. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.

CHECK FOR PROPER POSITION OF ALL BELTS

See the figures that are shown for replacing motion, mower drive, and mower blade drive belts in the Service and Adjustments section of this manual. Verify that the belts are routed correctly.

FRONT



✓ CHECKLIST

BEFORE YOU OPERATE AND ENJOY YOUR NEW TRACTOR, WE WISH TO ASSURE THAT YOU RECEIVE THE BEST PERFORMANCE AND SATISFACTION FROM THIS QUALITY PRODUCT.

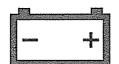
PLEASE REVIEW THE FOLLOWING CHECKLIST:

- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- All tires are properly inflated. (For shipping purposes, the tires were overinflated at the factory)
- Be sure mower deck is properly leveled side-to-side/ front-to-rear for best cutting results. (Tires must be properly inflated for leveling).
- ✓ Check mower and drive belts. Be sure they are routed properly around pulleys and inside all belt keepers.
- Check wiring. See that all connections are still secure and wires are properly clamped.

WHILE LEARNING HOW TO USE YOUR TRACTOR, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS:

- ✓ Engine oil is at proper level.
- ✓ Fuel tank is filled with fresh, clean, regular unleaded gasoline.
- Become familiar with all controls their location and function. Operate them before you start the engine.
- Be sure brake system is in safe operating condition.

These symbols may appear on your tractor or in literature supplied with the product. Learn and understand their meaning.



BATTERY



CAUTION OR WARNING



REVERSE



FORWARD



FAST



SLOW



ENGINE ON



ENGINE OFF



OIL PRESSURE



CLUTCH



LIGHTS ON



LIGHTS OFF



FUEL



CHOKE



MOWER HEIGHT



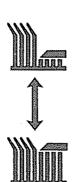
DIFFERENTIAL LOCK



PARKING BRAKE LOCKED



UNLOCKED



MOWER LIFT



REVERSE



NEUTRAL



HIGH



LOW





PARKING BRAKE



ATTACHMENT CLUTCH ENGAGED



ATTACHMENT CLUTCH DISENGAGED

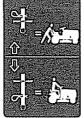


IGNITION



DANGER, KEEP HANDS AND FEET AWAY





HYDROSTATIC FREE WHEEL (Hydro Models only)

KNOW YOUR TRACTOR

READ THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR TRACTOR

Compare the illustrations with your tractor to familiarize yourself with the locations of various controls and adjustments. Save this manual for future reference.

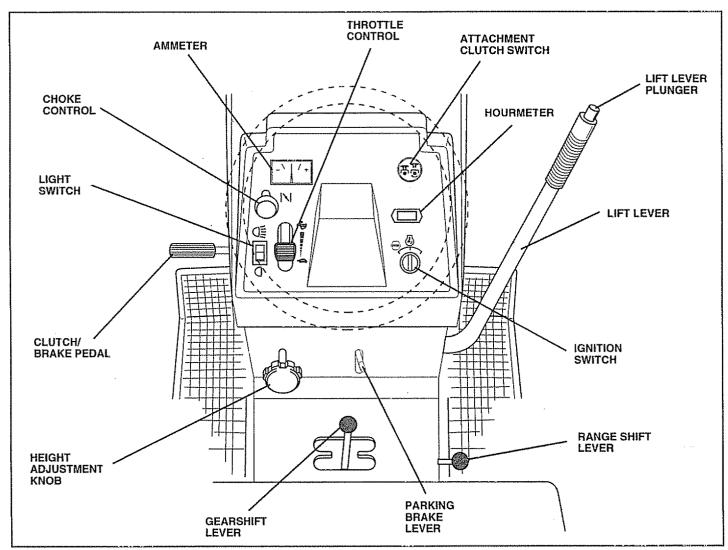


FIG. 5

Our tractors conform to the safety standards of the American National Standards Institute.

ATTACHMENT CLUTCH SWITCH - Used to engage mower blades or other attachments mounted to your tractor.

LIFT LEVER - Used to raise and lower mower deck or other attachments mounted to your tractor.

LIFT LEVER PLUNGER - Used to release attachment lift lever when changing its position.

CLUTCH/BRAKE PEDAL - Used for declutching and braking the tractor and starting the engine.

GEARSHIFT LEVER - Selects the speed and direction of tractor.

THROTTLE CONTROL - Used to control engine speed. **HOURMETER** - Indicates hours of operation.

RANGE SHIFT LEVER - Allows high (H) or low (L) speed for all forward and reverse gears.

IGNITION SWITCH - Used to start and stop the engine. **AMMETER** - Indicates battery charging (+) or discharging (-).

LIGHT SWITCH - Turns the headlights on and off.

PARKING BRAKE LEVER - Locks clutch/brake pedal into the brake position.

CHOKE CONTROL - Used when starting a cold engine.

HEIGHT ADJUSTMENT KNOB - Used to adjust the mower height.



The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields while operating your tractor or performing any adjustments or repairs. We recommend a wide vision safety mask over the spectacles or standard safety glasses.

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 6)

Your tractor is equipped with an operator presence sensing switch. When engine is running, any attempt by the operator to leave the seat without first setting the parking brake will shut off the engine.

- Depress clutch/brake pedal into full "BRAKE" position and hold.
- Place parking brake lever in "ENGAGED" position and release pressure from clutch/brake pedal. Pedal should remain in "BRAKE" position. Make sure parking brake will hold tractor secure.

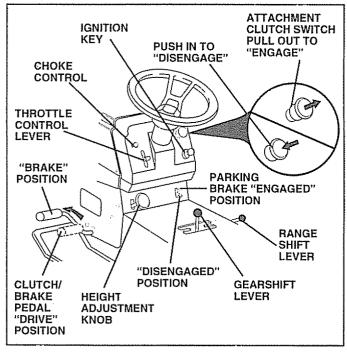


FIG. 6

STOPPING (See Fig. 6)

MOWER BLADES -

Move attachment clutch switch to "DISENGAGED" position.

GROUND DRIVE -

- Depress clutch/brake pedal into full "BRAKE" position.
- Move gearshift lever to neutral (N) position.
 ENGINE -
- Move throttle control to slow (
 position.

NOTE: Failure to move throttle control to slow () position and allowing engine to idle before stopping may cause engine to "backfire".

- Turn ignition key to "OFF" position and remove key.
 Always remove key when leaving tractor to prevent unauthorized use.
- Never use choke to stop engine.

NOTE: Under certain conditions when tractor is standing idle with the engine running, hot engine exhaust gases may cause "browning" of grass. To eliminate this possibility, always stop engine when stopping tractor on grass areas.



CAUTION: Always stop tractor completely, as described above, before leaving the operator's position; to empty grass catcher, etc.

TO USE THROTTLE CONTROL (See Fig. 6)

Always operate engine at full throttle.

- Operating engine at less than full throttle reduces the battery charging rate.
- Full throttle offers the best mower performance.

TO USE CHOKE CONTROL (See Fig. 6)

Use choke control whenever you are starting a cold engine. Do not use to start a warm engine.

 To engage choke control, pull knob out. Slowly push knob in to disengage.

TO MOVE FORWARD AND BACKWARD (See Fig. 6)

The direction and speed of movement is controlled by the gearshift lever.

- Start tractor with clutch/brake pedal depressed and gearshift lever in neutral (N) position.
- Move gearshift and range shift levers to desired position.
- Slowly release clutch/brake pedal to start movement.
 IMPORTANT: BRING TRACTOR TO A COMPLETE STOP BEFORE SHIFTING OR CHANGING GEARS. FAILURE TO DO SO WILL SHORTEN THE USEFUL LIFE OF YOUR TRANSAXLE.

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 6)

The cutting height is controlled by turning the height adjustment knob in desired direction.

- Turn knob clockwise () to raise cutting height.
- Turn knob counterclockwise () to lower cutting height.

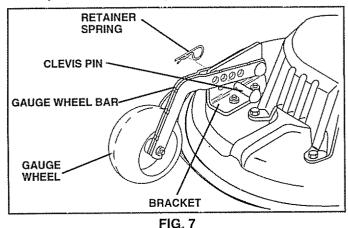
The cutting height range is approximately 1-1/2" to 4-1/2". The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

- The average lawn should be cut to approximately 2-1/2 inches during the cool season and to over 3 inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.
- For best cutting performance, grass over 6 inches in height should be mowed twice. Make the first cut relatively high; the second to desired height.

TO ADJUST GAUGE WHEELS (See Fig. 7)

Adjust gauge wheels with tractor on a flat level surface.

- Adjust mower to desired cutting height.
- Lower mower with lift control. Remove rear retainer spring and clevis pin which secure each gauge wheel.
- Lower gauge wheels to ground. Raise gauge wheels slightly to align holes in bracket and gauge wheel bar and insert clevis pins. Gauge wheels should be slightly off the ground.
- Replace retainer springs into clevis pins.



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TO OPERATE MOWER (See Figs. 5 and 6)

Your tractor is equipped with an operator presence sensing switch. Any attempt by the operator to leave the seat with the engine running and the attachment clutch engaged will shut off the engine.

- Select desired height of cut.
- Lower mower with attachment lift control.
- Start mower blades by engaging attachment clutch control.
- TO STOP MOWER BLADES disengage attachment clutch control.



CAUTION: Do not operate the mower without either the entire grass catcher, on mowers so equipped, or the discharge guard in place.

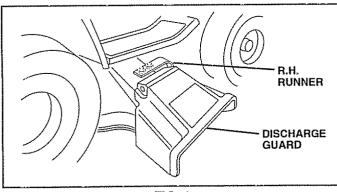


FIG. 8

TO OPERATE ON HILLS



CAUTION: Do not drive up or down hills with slopes greater than 15° and do not drive across any slope.

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move gearshift lever to 1st gear and range shift lever to low (L) position. Be sure you have allowed room for tractor to roll slightly as you restart movement.
- To restart movement, slowly release parking brake and clutch/brake pedal.
- Make all turns slowly.

TO TRANSPORT

- Raise attachment lift to highest position with attachment lift control.
- When pushing or towing your tractor, be sure gearshift lever is in neutral (N) position.
- Do not push or tow tractor at more than five (5) MPH.

NOTE: To protect hood from damage when transporting your tractor on a truck or a trailer, be sure hood is closed and secured to tractor. Use an appropriate means of tying hood to tractor (rope, cord, etc.).

BEFORE STARTING THE ENGINE CHECK ENGINE OIL LEVEL (See Fig. 9)

- The engine in your tractor has been shipped, from the factory, already filled with summer weight oil.
- · Check engine oil with tractor on level ground.
- Unthread and remove oil fill cap/dipstick; wipe oil off. Reinsert the dipstick into the tube and rest oil fill cap on the tube. Do not thread the cap onto the tube. Remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Customer Responsibilities section of this manual).
- To change engine oil, see the Customer Responsibilities section in this manual.

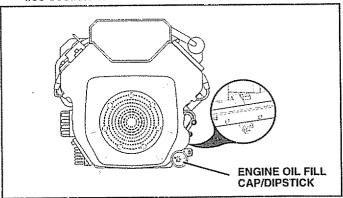


FIG. 9

ADD GASOLINE

 Fill fuel tank. Use fresh, clean, regular unleaded gasoline with a minimum of 87 octane. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life). Do not mix oil with gasoline. Purchase fuel in quantities that can be used within 30 days to assure fuel freshness.

IMPORTANT: WHEN OPERATING IN TEMPERATURES BELOW 32°F(0°C), USE FRESH, CLEAN WINTER GRADE GASOLINE TO HELP INSURE GOOD COLD WEATHER STARTING.

WARNING: Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.



CAUTION: Fill to bottom of gas tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

TO START ENGINE (See Fig. 6)

When starting the engine for the first time or if the engine has run out of fuel, it will take extra cranking time to move fuel from the tank to the engine.

- Depress clutch/brake pedal and set parking brake.
- Place gear shift lever in neutral (N) position.
- Move attachment clutch to "DISENGAGED" position.
- Move throttle control to fast (�) position
- Pull choke control out for a cold engine start attempt.
 For a warm engine start attempt the choke control may not be needed.

Note: Before starting, read the warm and cold starting procedures below.

• Insert key into ignition and turn key clockwise to "START" position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If the engine does not start after several attempts, push choke control in, wait a few minutes and try again. If engine still does not start, pull the choke control out and retry.

WARM WEATHER STARTING (50° F and above)

- When engine starts, slowly push choke control in until the engine begins to run smoothly. If the engine starts to run roughly, pull the choke control out slightly for a few seconds and then continue to push the control in slowly.
- The attachments and ground drive can now be used. If the engine does not accept the load, restart the engine and allow it to warm up for one minute using the choke as described above.

COLD WEATHER STARTING (50° F and below)

- When engine starts, slowly push choke control in until the control in small steps allowing the engine to accept small characteristic run roughly, pull the choke control out sli in slowly. This may require an engine warm-up period fro temperature.
- The attachments can be used during the engine warm-up pe NOTE: If at a high altitude (above 3000 feet) or in cold tempera be adjusted for best engine performance. See "TO ADJUST CAI manual.

MOWING TIPS

- Tire chains cannot be used when the mower housing is attached to tractor.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- Use the runner on the right hand side of mower as a guide. The blade cuts approximately an inch outside the runner (See Fig. 8).
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 10).
- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

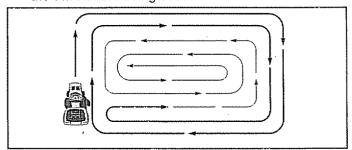


FIG. 10

FIL AS	AINTENANCE SCHEDULE L IN DATES YOU COMPLETE GULAR SERVICE		EFORE F	RST 2	SE HOURS HOURS	HOURS VERY 25	ALOUR ST	HOUR WERY TO	OHOUR OHOUR SERVER	ASON FORE	SER'	yice	DAT	ES
	Check Brake Operation	0		0						.,				
	Check Tire Pressure	V		W										
T	Check for Loose Fasteners	V					1 /7		W					
R	Sharpen/Replace Mower Blades				W/4								<u> </u>	
A C	Lubrication Chart			,	9/				4					
Ť	Check Battery Level/Recharge				6									,
0	Clean Battery and Terminals				4				W		·····			
R	Check Transaxle Cooling				0/									
	Adjust Blade Belt(s) Tension						6 5							***************************************
	Adjust Motion Drive Belt(s) Tension						5							
	Check Engine Oil Level	0.1		0/										
	Change Engine Oil		1		1,2,3				Beef					
	Clean Air Filter				V 2									
E	Clean Air Screen				1 /2									
Ğ	Inspect Muffler/Spark Arrester													
I	Replace Oil Filter (If equipped)						1,2							
N	Clean Engine Cooling Fins						V 2							
E	Replace Spark Plug						V	3/100						
	Replace Air Filter Paper Cartridge						W 2							
	Replace Fuel Filter							W]		A nagrangion aminimization

- 1 Change more often when operating under a heavy load or in high ambient temperatures.
- 2 Service more often when operating in dirty or dusty conditions
- 3 If equipped with oil filter, change oil every 50 hours
- 4 Replace blades more often when mowing in sandy soil

- 5 If equipped with adjustable system
- 6 Not required if equipped with maintenance-free battery.
- 7 Tighten front axle pivot bolt to 35 ft -lbs maximum Do not overtighten

GENERAL RECOMMENDATIONS

The warranty on this tractor does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, operator must maintain tractor as instructed in this manual.

Some adjustments will need to be made periodically to properly maintain your tractor.

All adjustments in the Service and Adjustments section of this manual should be checked at least once each season.

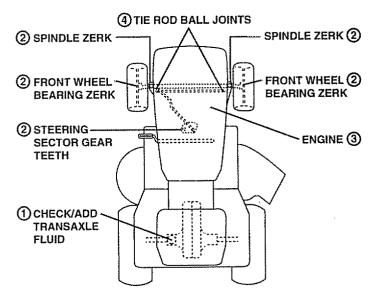
 Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

BEFORE EACH USE

- Check engine oil level.
- Check brake operation.
- Check tire pressure.
- Check for loose fasteners.

IMPORTANT: DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRICANTS WILL ATTRACT DUST AND DIRT THAT WILL SHORTEN THE LIFE OF THE SELF-LUBRICATING BEARINGS. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY, POWDERED GRAPHITE TYPE LUBRICANT SPARINGLY.

LUBRICATION CHART



- 1 SAE 30 MOTOR OIL API SF/SG
- (2) GENERAL PURPOSE GREASE
- (3) REFER TO CUSTOMER RESPONSIBILITIES "ENGINE" SECTION
- (4) SPRAY SILICONE LUBRICANT (MOVE BOOTS TO LUBRICATE)

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted. (See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual).

TIRES

- Maintain proper air pressure in all tires (See "PROD-UCT SPECIFICATIONS" on page 3 of this manual).
- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.

BLADE CARE

For best results mower blades must be kept sharp. Replace bent or damaged blades.

BLADE REMOVAL (See Fig. 11)

- Raise mower to highest position to allow access to blades.
- Remove hex bolt, lock washer and flat washer securing blade.
- Install new or resharpened blade with trailing edge up towards deck as shown.
- Reassemble hex bolt, lock washer and flat washer in exact order as shown.
- Tighten bolt securely (30-35 Ft. Lbs. torque).

IMPORTANT: BLADE BOLT IS GRADE 8 HEATTREATED. NOTE: We do not recommend sharpening blade - but if you do, be sure the blade is balanced.

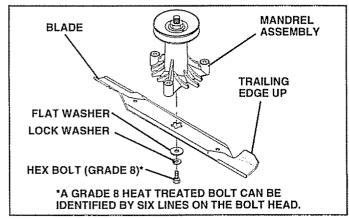


FIG. 11

TO SHARPEN BLADE (See Fig. 12)

Care should be taken to keep the blade balanced. An unbalanced blade will cause excessive vibration and eventual damage to mower and engine.

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- To check blade balance, you will need a 5/8" diameter steel bolt, pin, or a cone balancer. (When using a cone balancer, follow the instructions supplied with balancer).
- Slide blade on to an unthreaded portion of the steel bolt or pin and hold the bolt or pin parallel with the ground.
 If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.

NOTE: Do not use a nail for balancing blade. The lobes of the center hole may appear to be centered, but are not.

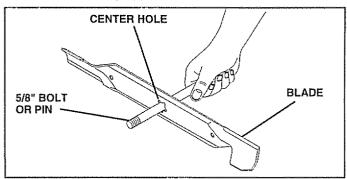


FIG. 12

V-BELTS

Check V-belts for deterioration and wear after 100 hours and replace if necessary. The belts are not adjustable. Replace belts if they begin to slip from wear.

TRANSAXLE COOLING

Keep transaxle free from build-up of dirt and chaff which can restrict cooling.

CHECK TRANSAXLE OIL LEVEL (See Fig. 13)

- Block up rear axle securely.
- Remove left rear wheel by removing hub bolts.
- Remove filler plug from transaxle. Oil level must be even with plug threads. If necessary, fill with SAE 30 motor oil, API-SF or SG. Replace filler plug.
- Reassemble wheel to hub.
- For approximate capacity see "PRODUCT SPECIFI-CATIONS" on page 3 of this manual.

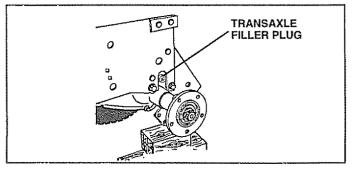


FIG. 13

BATTERY

Your tractor has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend its life.

- Keep battery and terminals clean.
- · Keep battery bolts tight.
- · Keep small vent holes open.
- Recharge at 6-10 amperes for 1 hour.

TO CLEAN BATTERY AND TERMINALS

Corrosion and dirt on the battery and terminals can cause the battery to "leak" power.

- Remove terminal guard.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- · Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum jelly.
- Reinstall battery (See "CONNECT BATTERY" in the Assembly section of this manual).

ENGINE

LUBRICATION

Only use high quality detergent oil rated with API service classification SF or SG. Select the oil's SAE viscosity grade according to your expected operating temperature.

NOTE: Although multi-viscosity oils (5W30, 10W30 etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

Change the oil after the first two hours of operation and every 50 hours thereafter or at least once a year if the tractor is not used for 50 hours in one year.

Check the crankcase oil level before starting the engine and after each eight (8) hours of operation. Tighten oil fill cap/dipstick securely each time you check the oil level.

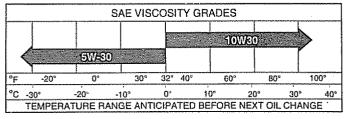


FIG. 14

TO CHANGE ENGINE OIL (See Figs. 14 and 15)

Determine temperature range expected before oil change. All oil must meet API service classification SF or SG.

- Be sure tractor is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- Remove oil fill cap/dipstick. Be careful not to allow dirt to enter the engine when changing oil.
- · Remove drain plug.
- After oil has drained completely, replace oil drain plug and tighten securely.
- Refill engine with oil through oil fill dipstick tube. Pour slowly. Do not overfill. For approximate capacity see "PRODUCT SPECIFICATIONS" on page 3 of this manual.
- Use gauge on oil fill cap/dipstick for checking level. Insert dipstick into the tube and rest the oil fill cap on the tube. Do not thread the cap onto the tube when taking reading. Keep oil at "FULL" line on dipstick. Tighten cap onto the tube securely when finished.

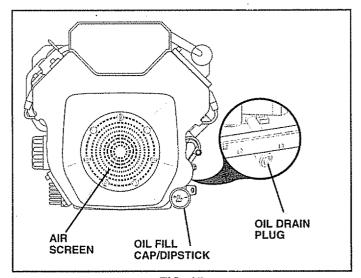


FIG. 15

CLEAN AIR SCREEN (See Fig. 15)

Air screen must be kept free of dirt and chaff to prevent engine damage from overheating. Clean with a wire brush or compressed air to remove dirt and stubborn dried gum fibers

CLEAN AIR INTAKE/COOLING AREAS

To insure proper cooling, make sure the grass screen, cooling fins, and other external surfaces of the engine are kept clean at all times.

Every 100 hours of operation (more often under extremely dusty, dirty conditions), remove the blower housing and other cooling shrouds. Clean the cooling fins and external surfaces as necessary. Make sure the cooling shrouds are reinstalled.

NOTE: Operating the engine with a blocked grass screen, dirty or plugged cooling fins, and/or cooling shrouds removed will cause engine damage due to overheating.

AIR FILTER (See Fig. 16)

Your engine will not run properly using a dirty air filter. Clean the foam pre-cleaner after every 25 hours of operation or every season. Service paper cartridge every 100 hours of operation or every season, whichever occurs first. Service air cleaner more often under dusty conditions.

Loosen knob and remove cover.

TO SERVICE PRE-CLEANER

- Slide foam pre-cleaner off cartridge.
- · Wash it in liquid detergent and water.
- Squeeze it dry in a clean cloth.
- Saturate it in engine oil. Wrap it in clean, absorbent cloth and squeeze to remove excess oil.

TO SERVICE CARTRIDGE

- Remove nut and cartridge plate.
- Gently tap the flat side of the paper cartridge to dislodge dirt. Do not wash the paper cartridge or use pressurized air, as this will damage the cartridge. Replace a dirty, bent, or damaged cartridge.
- Reinstall the pre-cleaner (cleaned, and oiled) over the paper cartridge.
- Check rubber seal for damage and proper position around stud. Replace if necessary.
- · Reassemble air cleaner, cartridge plate, and nut.
- Reinstall air cleaner cover and secure by tightening knob.

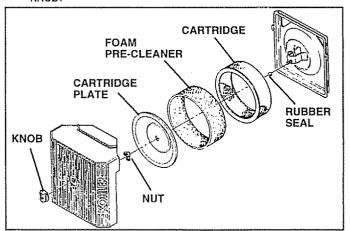


FIG. 16

MUFFLER

Inspect and replace corroded muffler and spark arrester (if equipped) as it could create a fire hazard and/or damage.

SPARK PLUGS

Replace spark plugs at the beginning of each mowing season or after every 100 hours of operation, whichever comes first. Spark plug type and gap setting are shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

ENGINE OIL FILTER

Replace the engine oil filter every season or every other oil change if the tractor is used more than 100 hours in one year.

IN-LINE FUEL FILTER (See Fig. 17)

The fuel filter should be replaced once each season. If fuel filter becomes clogged, obstructing fuel flow to carburetor, replacement is required.

- With engine cool, remove filter and plug fuel line sections.
- Place new fuel filter in position in fuel line with arrow pointing towards carburetor.
- Be sure there are no fuel line leaks and clamps are properly positioned.
- Immediately wipe up any spilled gasoline.

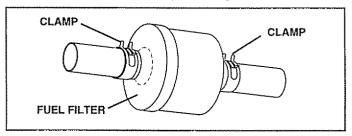


FIG. 17

CLEANING

- Clean engine, battery, seat, finish, etc. of all foreign matter.
- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- Protect painted surfaces with automotive type wax.

We do not recommend using a garden hose to clean your tractor unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:



- Depress clutch/brake pedal fully and set parking brake.
- Place gearshift lever in neutral (N) position.
- Place attachment clutch in "DISENGAGED" position.
- Turn ignition key "OFF" and remove key.
- Make sure the blades and all moving parts have completely stopped.
- Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.

TRACTOR

TO REMOVE MOWER (See Fig. 18)

- Place attachment clutch in "DISENGAGED" position.
- Turn height adjustment knob to lowest setting.
- Lower mower to its lowest position.
- Remove retainer spring holding anti-swaybar to chassis bracket and disengage anti-swaybar from bracket.
- Remove retainer springs from suspension arms at deck and disengage arms from deck.
- Raise attachment lift to its highest position.
- Remove two retainer springs from each front link and remove links
- Slide mower forward and remove belt from electric clutch pulley.
- Slide mower out from under right side of tractor.

IMPORTANT: IF AN ATTACHMENT OTHER THAN THE MOWER DECK IS TO BE MOUNTED ON THE TRACTOR, REMOVE THE FRONT LINKS.

TO INSTALL MOWER

Follow procedure described in "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual.

TO LEVEL MOWER HOUSING

Adjust the mower while tractor is parked on level ground or driveway. Make sure tires are properly inflated (See "PRODUCT SPECIFICATIONS" on page 3 of this manual). If tires are over or underinflated, you will not properly adjust your mower.

SIDE-TO-SIDE ADJUSTMENT (See Figs. 18 and 19)

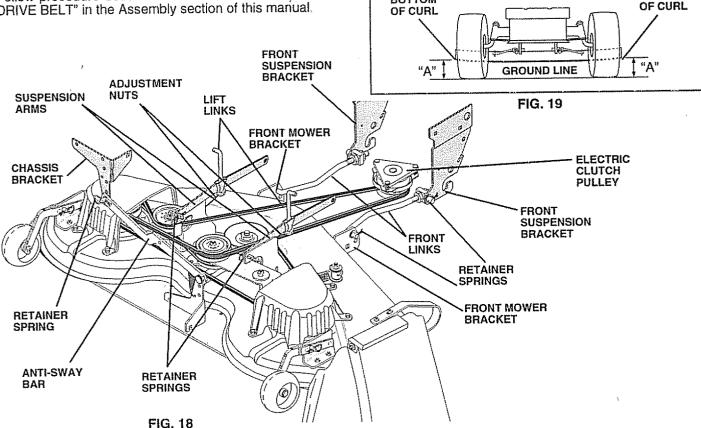
- Raise mower to its highest position.
- Measure height from bottom of deck curl to ground level at front corners of mower. Distance "A" on both sides of mower should be the same.
- If adjustment is necessary, make adjustment on one side of mower only.
- To raise one side of mower, tighten lift link adjustment nut on that side.
- To lower one side of mower, loosen lift link adjustment nut on that side.

NOTE: Each full turn of adjustment nut will change mower height about 3/16".

BOTTOM

Recheck measurements after adjusting.

BOTTOM



20

FRONT-TO-BACK ADJUSTMENT (See Figs. 20 and 21) -IMPORTANT: DECK MUST BE LEVEL SIDE-TO-SIDE. IF THE FOLLOWING FRONT-TO-BACK ADJUSTMENT IS NECESSARY, BE SURE TO ADJUST BOTH FRONT LINKS EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE. To obtain the best cutting results, the mower housing should be adjusted so the front is approximately 1/8" to 1/2" lower than the rear when the mower is in its highest

Check adjustment on right side of tractor. Measure distance "F" directly in front of and behind the mandrel at bottom edge of mower housing as shown.

Before making any necessary adjustments, check that both front links are equal in length.

If links are not equal in length, adjust one link to same length as other link.

To lower front of mower housing, loosen nut "G" on both

front links an equal number of turns.
When distance "F" is 1/8" to 1/2" lower at front than rear, tighten nut "H" against trunnion on both front links.

To raise front of mower housing, loosen nut "H" from trunnion on both front links. Tighten nut "G" on both front links an equal number of turns.

When distance "F" is 1/8" to 1/2" lower at front than rear, tighten nut "H" against trunnion on both front

NOTE: Each full turn of nut "G" will change dim. "F" by approximately 3/8".

Recheck side-to-side adjustment.

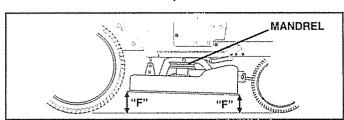


FIG. 20

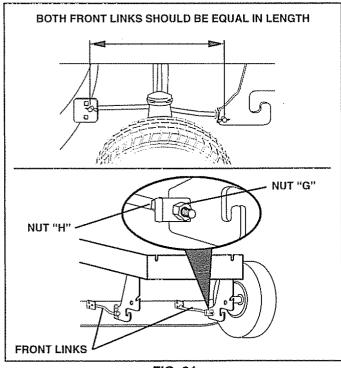


FIG. 21

TO REPLACE MOWER DRIVE BELT

MOWER DRIVE BELT REMOVAL (See Fig. 22) -

- Park tractor on a level surface. Engage parking brake.
- Remove four screws from L.H. mandrel cover and remove cover-
- Roll belt over the top of L.H. mandrel pulley.
- Remove belt from electric clutch pulley.
- Remove belt from idler pulleys.
- Remove any dirt or grass clippings which may have accumulated around mandrels and entire upper deck surface.
- Check primary idler arm and two idlers to see that they rotate freely.
- Be sure spring is securely hooked to primary idler arm and bolt in mower housing.

MOWER DRIVE BELT INSTALLATION (See Fig. 22) -

- Install belt in both idlers. Make sure belt is in both belt keepers at the idlers as shown.
- Install new belt onto electric clutch pulley.
- Roll belt into upper groove of L.H. mandrel pulley.
- Carefully check belt routing making sure belt is in the grooves correctly and inside belt keepers.
- Reassemble L.H. mandrel cover.

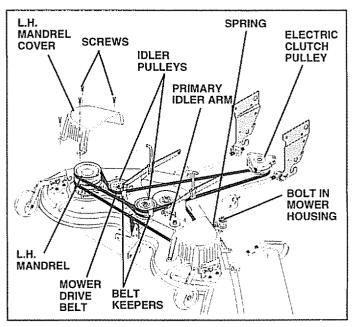


FIG. 22

TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 23)

Park the tractor on level surface. Engage parking brake.

- Remove mower drive belt (See "TO REPLACEMOWER DRIVE BELT" in this section of this manual).
- Remove mower (See "TO REMOVE MOWER" in this section of this manual).
- Remove four screws from R.H. mandrel cover and remove cover. Unhook spring from bolt on mower housing.
- Carefully roll belt off R.H. mandrel pulley.
- Remove belt from center mandrel pulley, idler pulley, and L.H. mandrel pulley.
- Remove any dirt or grass which may have accumulated around mandrels and entire upper deck surface.
- Check secondary idler arm and idler to see that they rotate freely.
- Be sure spring is hooked in secondary idler arm and sway-bar bracket.
- Install new belt in lower groove of L.H. mandrel pulley, idler pulley, and center mandrel pulley as shown.
- Roll belt over R.H. mandrel pulley. Make sure belt is in all grooves properly.
- Reconnect spring to bolt in mower housing and reinstall R.H. mandrel cover.
- Reinstall mower to tractor (See "INSTALL MOWER AND DRIVE BELT" in the Assembly section of this manual).
- Reassemble mower drive belt (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).

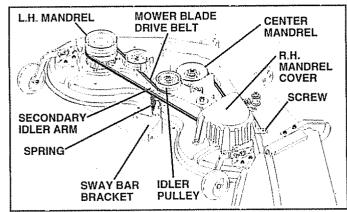


FIG. 23

TO ADJUST ATTACHMENT CLUTCH (See Fig. 24)

The electric clutch should provide years of service. The clutch has a built-in brake that stops the pulley within 5 seconds. Eventually, the internal brake will wear which may cause the mower blades to not engage, or, to not stop as required. Adjustments should be made by your nearest authorized service center/department.

- Make sure attachment clutch and ignition switches are in "OFF" position.
- Adjust the three nylon locknuts until space between clutch plate and rotor measures .012" at all three slot locations cut in the inside of brake plate.

NOTE: After installing a new electric clutch, run tractor at full throttle and engage and disengage electric clutch 10 cycles to wear in clutch plate.

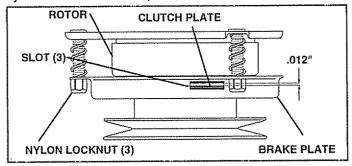


FIG. 24

TO ADJUST BRAKE (See Fig. 25)

Your tractor is equipped with an adjustable brake system which is mounted on the left side of the transaxle.

If tractor requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted.

- Depress clutch/brake pedal and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-3/4", loosen jam nut and turn nut "A" until distance becomes 1-3/4". Retighten jam nut against nut "A".
- Road test tractor for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center/department.

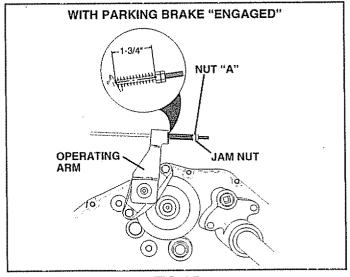


FIG. 25

TO REPLACE MOTION DRIVE BELT (See Fig. 26)

Park the tractor on level surface. Engage parking brake. For ease of service there is a belt installation guide decal on bottom of left footrest. It is not necessary to remove mower.

BELT REMOVAL -

- Engage parking brake (creates slack in belt).
- Remove mower drive belt from electric clutch pulley only (See "TO REPLACE MOWER DRIVE BELT" in this section of this manual).
- · Roll motion drive belt off transaxle pulley.
- Roll belt off clutching idler pulleys, then off engine pulley and front V-idler pulley.
- Pull belt out of all belt keepers.

BELT INSTALLATION -

- Place V part of belt into grooves on engine pulley and front V-idler, making sure to route belt inside of belt keepers.
- Put belt coming from V-idler above midspan belt keeper, then onto clutching idler pulleys as shown.
- Make sure V part of belt engages V-idler.
- Place belt around transaxle pulley, beginning at top.
 V part of belt should engage transaxle pulley.
- Place long lower section of belt through loop in midspan belt keeper.
- Check to be sure belt is on proper side of all belt keepers.
- · Reinstall mower drive belt onto electric clutch pulley.

IMPORTANT: CHECK BRAKE ADJUSTMENT.

TO ADJUST STEERING WHEEL ALIGNMENT

If steering wheel crossbars are not horizontal (left to right) when wheels are positioned straight forward, remove steering wheel and reassemble per instructions in the Assembly section of this manual.

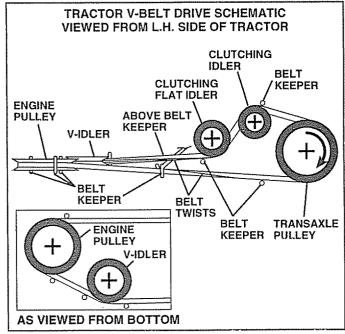


FIG. 26

FRONT WHEEL TOE-IN ADJUSTMENT

Front wheel toe-in is required for proper steering operation. Toe-in was set at the factory and adjustment should not be necessary. If parts in the front axle or steering mechanism have been replaced or damaged, check toe-in and adjust if necessary.

TO CHECK TOE-IN (See Fig. 27) -

- Position front wheels straight ahead.
- Measure distance between wheels at front and rear of tires (dimensions "A" and "B").
- Front dimension "A" should be 1/8" to 1/4" less than rear dimension "B".

TO ADJUST TOE-IN (See Figs. 27 and 28) -

- · Loosen jam nuts at adjustment sleeves on tie rod.
- Adjust tie rod until dimension "A" is 1/8" to 1/4" less than dimension "B".
- · Tighten jam nuts securely.

FRONT WHEEL CAMBER

The front wheel camber is not adjustable on your tractor. If damage has occurred to affect the front wheel camber, contact your nearest authorized service center/department.

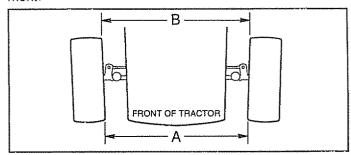


FIG. 27

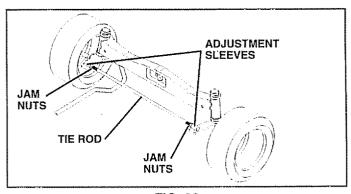


FIG. 28

TO REMOVE WHEEL FOR REPAIRS

FRONT WHEEL (See Fig. 29) -

- Block up axle securely.
- Remove axle cover, retaining ring and washers to allow wheel removal.
- · Repair tire and reassemble.
- Replace washers and snap retaining ring securely in axle groove.
- · Replace axle cover.

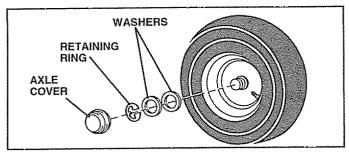


FIG. 29

REAR WHEEL-

- Block rear axle securely.
- Remove five (5) hub bolts to allow wheel removal.
- Repair tire and reassemble. Replace and tighten hub bolts securely.

TO START ENGINE WITH A WEAK BATTERY (See Fig. 30)



CAUTION: Lead-acid batteries generate explosive gases. Keep sparks, flame and smoking materials away from batteries. Always wear eye protection when around batteries.

If your battery is too weak to start the engine, it should be recharged. If "jumper cables" are used for emergency starting, follow this procedure:

IMPORTANT: YOUR TRACTOR IS EQUIPPED WITH A 12 VOLT NEGATIVE GROUNDED SYSTEM. THE OTHER VEHICLE MUST ALSO BE A 12 VOLT NEGATIVE GROUNDED SYSTEM. DO NOT USE YOUR TRACTOR BATTERY TO START OTHER VEHICLES.

TO ATTACH JUMPER CABLES -

- Connect each end of the RED cable to the POSITIVE
 (+) terminal of each battery, taking care not to short against chassis.
- Connect one end of the BLACK cable to the NEGA-TIVE (-) terminal of fully charged battery.
- Connect the other end of the BLACK cable to a panel bolt on the left side of the tractor, away from fuel tank and battery.

TO REMOVE CABLES, REVERSE ORDER -

- BLACK cable first from chassis and fully charged battery.
- RED cable last from both batteries.

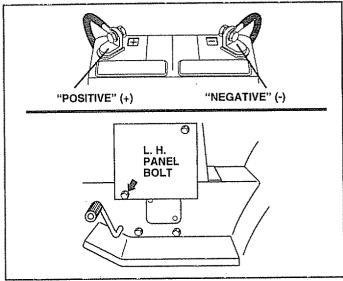


FIG. 30

TO REPLACE HEADLIGHT BULB

- Raise hood.
- Pull bulb holder out of the hole in the backside of the grill.
- Replace bulb in holder and push bulb holder securely back into the hole in the backside of the grill.
- Close hood.

INTERLOCKS AND RELAYS

Loose or damaged wiring may cause your tractor to run poorly, stop running, or prevent it from starting.

 Check wiring. See electrical wiring diagram in Repair Parts section of this manual.

TO REPLACE FUSE

Replace with 30 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

TO ADJUST ATTACHMENT LIFT SPRING (See Fig. 31)

- While holding spring bushing with wrench, loosen jam nut.
- Turn adjustment bolt clockwise to extend spring and reduce lift effort for heavier attachments.
- Turn adjustment bolt counterclockwise for lighter attachments.
- Retighten jam nut against spring bushing.

IMPORTANT: DO NOT ADJUST FOR MAXIMUM SPRING TENSION WHEN USING LIGHT ATTACHMENTS SUCH AS A MOWER. ADJUST LIFT LEVER SPRING TO AID IN LIFTING ATTACHMENT. DO NOT OVERPOWER SPRING. WHEN REMOVING ATTACHMENT, ALWAYS ADJUST SPRING TENSION TO ITS LOWEST POSITION.

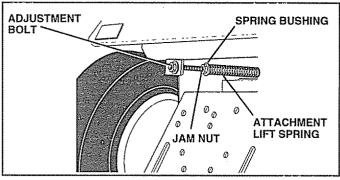


FIG. 31

TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 32)

- Raise hood.
- Unsnap headlight wire connector.
- Stand in front of tractor. Grasp hood at sides, tilt toward engine and lift off of tractor.
- To replace, reverse above procedure.

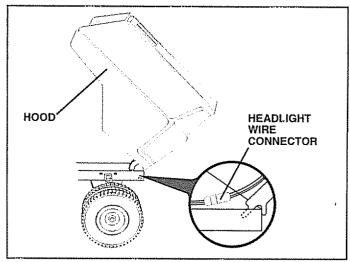


FIG. 32

ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 33)

The throttle control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:

- With engine not running, move throttle control lever to fast () position.
- Check that speed control lever is against stop screw. If it is not, loosen casing clamp screw and pull throttle cable until lever is against screw. Tighten clamp screw securely.

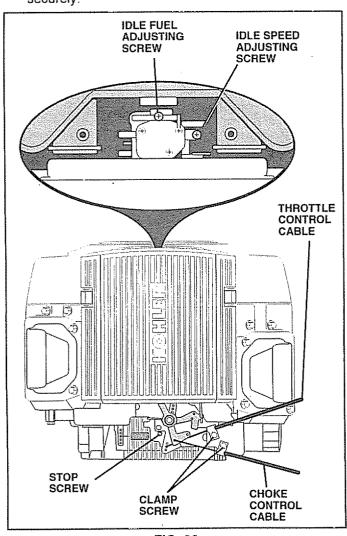


FIG. 33

TO ADJUST CHOKE CONTROL (See Figs. 33 and 34)

The choke control has been preset at the factory and adjustment should not be necessary, check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:

- With engine not running, move choke control (located on dash panel) to full choke (|\|) position.
- Remove air cleaner cover, filter and cartridge plate to expose carburetor choke (See "AIR FILTER" in the Customer Responsibilities section of this manual).
- Choke should be closed. If it is not, loosen casing clamp screw and move choke cable until choke is completely closed. Tighten casing clamp screw securely.
- Reassemble air cleaner.

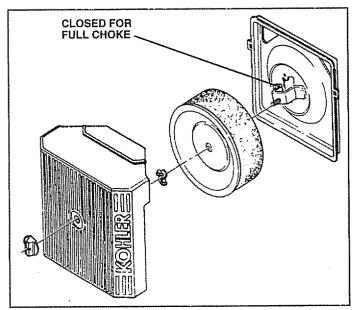


FIG. 34

TO ADJUST CARBURETOR (See Fig. 33)

The carburetor has been present at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, proceed as follows:

In general, turning the adjusting needles **in** (clockwise) decreases the supply of fuel to the engine giving a leaner fuel/air mixture. Turning the adjusting needles **out** (counterclockwise) increases the supply of fuel to the engine giving a richer fuel/air mixture.

IMPORTANT: DAMAGE TO THE NEEDLES AND THE SEATS IN CARBURETOR MAY RESULT IF SCREW IS TURNED IN TOO TIGHT.

PRELIMINARY SETTING -

- Be sure you have a clean air filter, and the throttle control cable is adjusted properly (see "TO ADJUST THROTTLE CONTROL CABLE" in the Service and Adjustments section of this manual).
- With engine off turn idle fuel adjusting needle in (clockwise) closing it finger tight and then turn out (counterclockwise) 1 turn.

FINAL SETTING -

- Start engine and allow to warm for five minutes. Make final adjustments with engine running and shift/motion control lever in neutral (N) position.
- The high idle is set at the factory and cannot be adjusted.
- Idle speed setting With throttle control lever in slow
 (
) position, engine should idle at 1200 RPM. If
 engine idles too slow or fast, turn idle speed adjusting
 screw in or out until correct idle is attained.
- Idle fuel needle setting With throttle control lever in slow (<) position, turn idle fuel adjusting needle in (clockwise) until engine speed decreases and then turn out (counterclockwise) approximately 3/4 turn to obtain the best low speed performance.
- Recheck idle speed. Readjust if necessary.

ACCELERATION TEST -

Move throttle control lever from slow () to fast () position. If engine hesitates or dies, turn idle fuel adjusting needle out (counterclockwise) 1/8 turn. Repeat test and continue to adjust, if necessary, until engine accelerates smoothly.

High speed stop is factory adjusted. Do not adjust-damage may result.

IMPORTANT: NEVER TAMPER WITH THE ENGINE GOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING THE ENGINE ABOVE THE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. IF YOU THINK THE ENGINE-GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACT YOUR NEAREST AUTHORIZED SERVICE CENTER/DEPARTMENT, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

STORAGE

Immediately prepare your tractor for storage at the end of the season or if the tractor will not be used for 30 days or more.



CAUTION: Never store the tractor with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

TRACTOR

Remove mower from tractor for winter storage. When mower is to be stored for a period of time, clean it thoroughly, remove all dirt, grease, leaves, etc. Store in a clean, dry area.

- Clean entire tractor (See "CLEANING" in the Customer Responsibilities section of this manual).
- Inspect and replace belts, if necessary (See belt replacement instructions in the Service and Adjustments section of this manual).
- Lubricate as shown in the Customer Responsibilities section of this manual.
- Be sure that all nuts, bolts and screws are securely fastened. Inspect moving parts for damage, breakage and wear. Replace if necessary.
- Touch up all rusted or chipped paint surfaces; sand lightly before painting.

BATTERY

- Fully charge the battery for storage.
- After a period of time in storage, battery may require recharging.
- To help prevent corrosion and power leakage during long periods of storage, battery cables should be disconnected and battery cleaned thoroughly (see "TO CLEAN BATTERY AND TERMINALS" in the Customer Responsibilities section of this manual).
- After cleaning, leave cables disconnected and place cables where they cannot come in contact with battery terminals.
- Be sure battery drain tube is securely attached.
- If battery is removed from tractor for storage, do not store battery directly on concrete or damp surfaces.

ENGINE

FUEL SYSTEM

IMPORTANT: IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL FUEL SYSTEM PARTS SUCH AS CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DURING STORAGE. ALSO, EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

- Drain the fuel tank.
- Start the engine and let it run until the fuel lines and carburetor are empty.
- Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.
- Use fresh fuel next season.

NOTE: Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not drain the gas tank and carburetor if using fuel stabilizer.

ENGINE OIL

Drain oil (with engine warm) and replace with clean engine oil. (See "ENGINE" in the Customer Responsibilities section of this manual).

CYLINDERS

- Remove spark plug(s).
- Pour one ounce of oil through spark plug hole(s) into cylinder(s).
- Turn ignition key to "START" position for a few seconds to distribute oil.
- Replace with new spark plug(s).

OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your tractor indoors and cover it to give protection from dust and dirt.
- Cover your tractor with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your tractor to rust.

IMPORTANT: NEVER COVER TRACTOR WHILE ENGINE AND EXHAUST AREAS ARE STILL WARM.

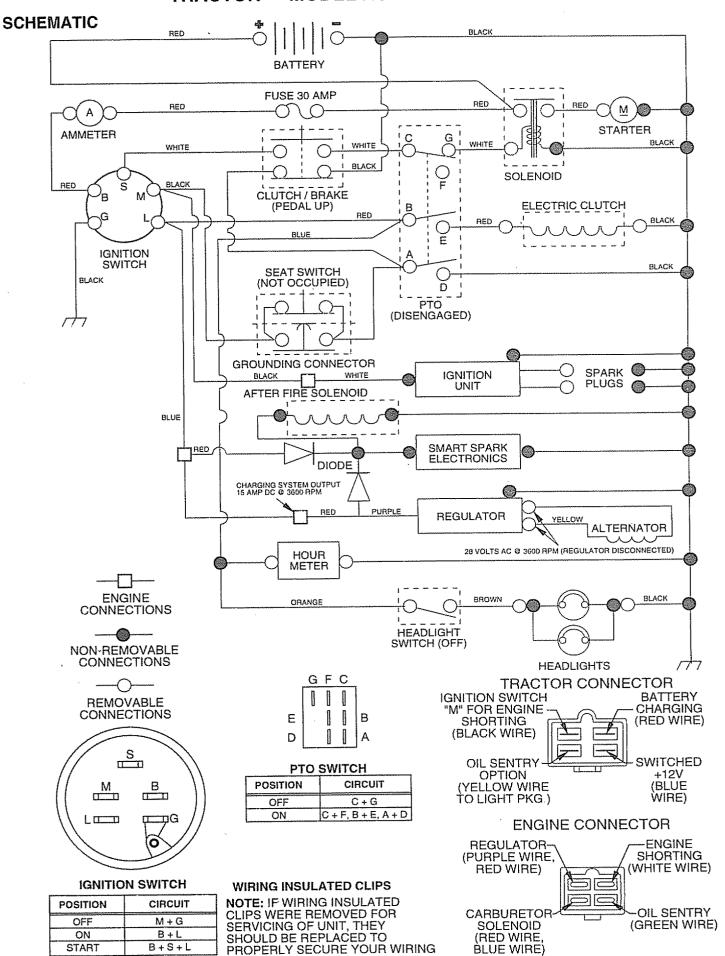
TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Will not start	1. Out of fuel 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Bad spark plug. 5. Dirty air filter. 6. Dirty fuel filter. 7. Water in fuel. 8. Loose or damaged wiring 9. Carburetor out of adjustment. 10. Engine valves out of adjustment.	1. Fill fuel tank. 2. See "TO START ENGINE" in Operation section. 3. Wait several minutes before attempting to start 4. Replace spark plug. 5. Clean/replace air filter. 6. Replace fuel filter. 7. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. 8. Check all wiring 9. Contact an authorized service center/department. 10. Contact an authorized service center/department.
Hard to start	1 Dirty air filter 2 Bad spark plug 3 Weak or dead battery 4 Dirty fuel filter 5 Stale or dirty fuel 6 Loose or damaged wiring 7 Carburetor out of adjustment 8 Engine valves out of adjustment	 Clean/replace air filter. Replace spark plug. Recharge or replace battery. Replace fuel filter. Drain fuel tank and refill with fresh gasoline. Check all wiring. Contact an authorized service center/department. Contact an authorized service center/department.
Engine will not turn over	1. Clutch/brake pedal not depressed 2. Attachment clutch is engaged 3. Weak or dead battery 4. Blown fuse 5. Corroded battery terminals 6. Loose or damaged wiring 7. Faulty ignition switch 8. Faulty solenoid or starter 9. Faulty operator presence switch(es)	Depress clutch/brake pedal Disengage attachment clutch Recharge or replace battery Replace fuse Clean battery terminals Check all wiring. Check/replace ignition switch Check/replace solenoid or starter Contact an authorized service center/department
Engine clicks but will not start	Weak or dead battery. Corroded battery terminals. Loose or damaged wiring Faulty solenoid or starter	Recharge or replace battery. Clean battery terminals. Check all wiring Check/replace solenoid or starter.
Loss of power	1. Cutting too much grass/too fast. 2. Throttle in "CHOKE" position 3. Build-up of grass, leaves and trash under mower. 4. Dirty air filter. 5. Low oil level/dirty oil. 6. Faulty spark plug 7. Dirty fuel filter 8. Stale or dirty fuel. 9. Water in fuel. 10. Spark plug wire loose. 11. Dirty engine air screen/fins. 12. Dirty/clogged muffler. 13. Loose or damaged wiring 14. Carburetor out of adjustment. 15. Engine valves out of adjustment	 Set in "Higher Cut" position/reduce speed Adjust throttle control Clean underside of mower housing. Clean/replace air filter. Check oil level/change oil. Clean and regap or change spark plug. Replace fuel filter Drain fuel tank and refill with fresh gasoline. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. Connect and tighten spark plug wire. Clean engine air screen/fins Clean/replace muffler Check all wiring. Contact an authorized service center/department. Contact an authorized service center/department.
Excessive vibration	Worn, bent or loose blade Bent blade mandrel. Loose/damaged part(s).	Replace blade Tighten blade bolt Replace blade mandrel Tighten loose part(s) Replace damaged parts.

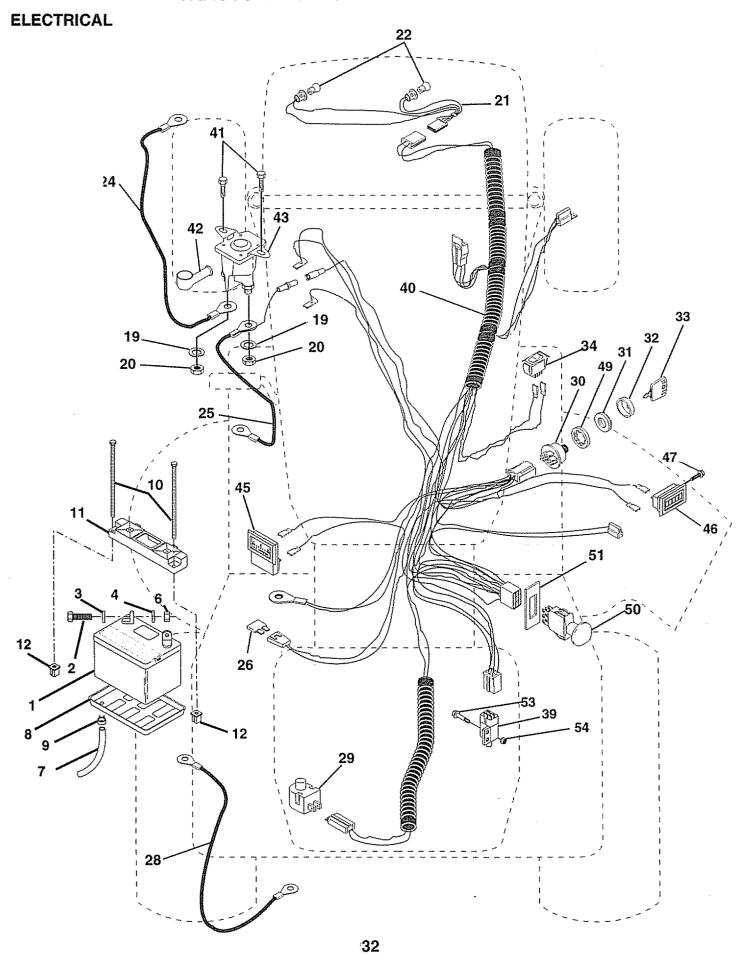
TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION				
ingine continues to run when operator leaves seat with attachment clutch engaged	Faulty operator-safety presence control system.	Check wiring, switches and connections. If not corrected, contact an authorized service center/ department				
Poor cut - uneven	 Worn, bent or loose blade. Mower deck not level Buildup of grass, leaves, and trash under mower. Bent blade mandrel. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels 	 Replace blade. Tighten blade bolt. Level mower deck. Clean underside of mower housing Replace blade mandrel. Clean around mandrels to open vent holes 				
Mower blades will not rotate	 Obstruction in clutch mechanism Worn/damaged mower drive belt Frozen idler pulley Frozen blade mandrel 	1. Remove obstruction. 2. Replace mower drive belt. 3. Replace idler pulley. 4. Replace blade mandrel.				
Poor grass discharge	 Engine speed too slow. Travel speed too fast. Wet grass. Mower deck not level. Low/uneven tire air pressure. Worn, bent or loose blade. Buildup of grass, leaves and trash under mower. Mower drive belt worn. Blades improperly installed. Improper blades used. Clogged mower deck vent holes from buildup of grass, leaves, and trash around mandrels. 	 Place throttle control in "FAST" position. Shift to slower speed. Allow grass to dry before mowing. Level mower deck Check tires for proper air pressure. Replace/sharpen blade. Tighten blade bolt. Clean underside of mower housing. Replace mower drive belt. Reinstall blades sharp edge down. Replace with blades listed in this manual. Clean around mandrels to open vent holes. 				
Headlight(s) not working (if so equipped)	Switch is "OFF" Bulb(s) burned out Faulty light switch Loose or damaged wiring Blown fuse	1. Turn switch "ON": 2. Replace bulb(s). 3. Check/replace light switch 4. Check wiring and connections. 5. Replace fuse.				
Battery will not charge	1 Bad battery cell(s). 2. Poor cable connections. 3. Faulty regulator (if so equipped). 4. Faulty alternator.	Replace battery. Check/clean all connections. Replace regulator. Replace alternator.				
Engine "backfires" when turning engine "OFF"	Engine throttle control not set at "SLOW" position for 30 seconds before stopping engine	Move throttle control to "SLOW" position and allow to idle for 30 seconds before stopping engine.				

TRACTOR - - MODEL NUMBER 917.251551



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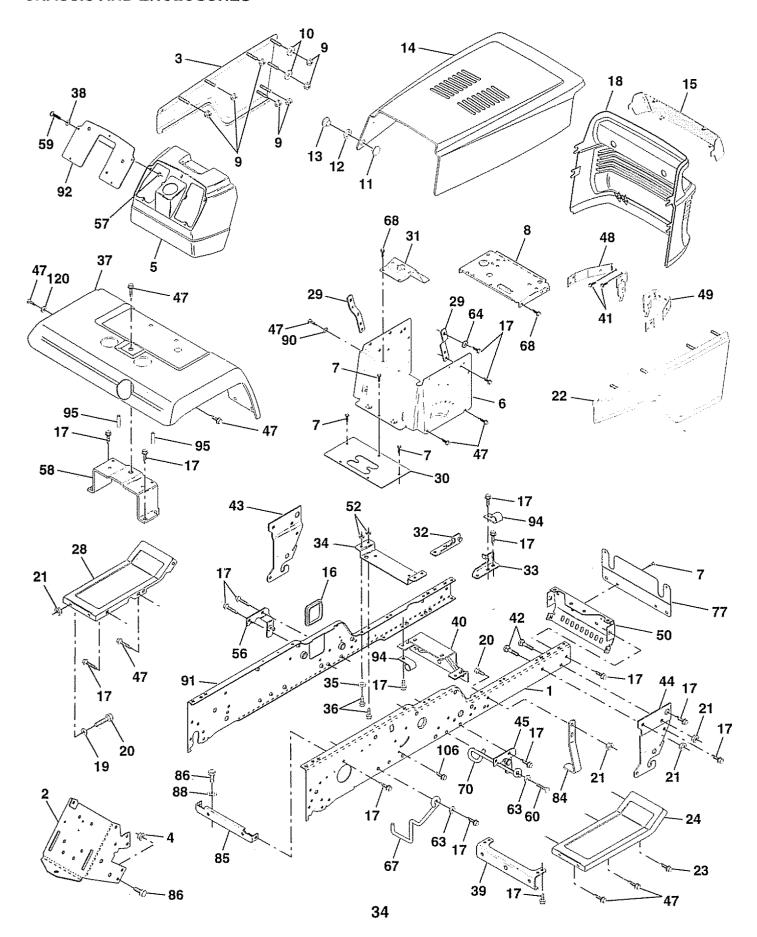
ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
11 12 19 20 21 22 24 25 26 28 29 30 31 32 33 34 40 41 42 43 45 46 47 49	121305X 144921 140400 141226 140403 110712X 109553X 151730 17720408 131563 145673 122822X 110940X 17011008 153249 146283 140405	Battery Bolt, Hex 1/4-20 x 3/4 Washer 9/32 x 5/8 x 16 Ga. Washer, Lock 1/4 Nut, Hex 1/4-20 Tube, Drain Tray, Battery Clamp, Hose Bolt, Btr. Frt. 1/4-20 x 7-1/2 Holddown Battery Dash Mount Nut, Push Nylon 1/4 Battery Front Washer, Lock 1/4 Nut, Hex Jam 1/4-20 Harness, Light Socket W/4152J Bulb, Headlight Cable, Battery Cable Battery Fuse Cable, Ground Switch, Plunger Switch, Ignition Nut, Ignition Cover, Switch Key Key, Ignition Switch, Light Switch Intlk CL MWR Gry 4 Term Harness, Ignition Screw, Hex Washer Head, Thread Cutting 1/4-20 x 1/2 Cover, Terminal Solenoid Ammeter Meter, Hour Screw 10-24 x 1/2 Black Washer Pinned Delta Switch, P.T.O. Ring Retainer PTO Screw, Hex Washer Head #10-32x1/2
54	73951000	Nut, Keps #10-32

NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER 917.251551

CHASSIS AND ENCLOSURES



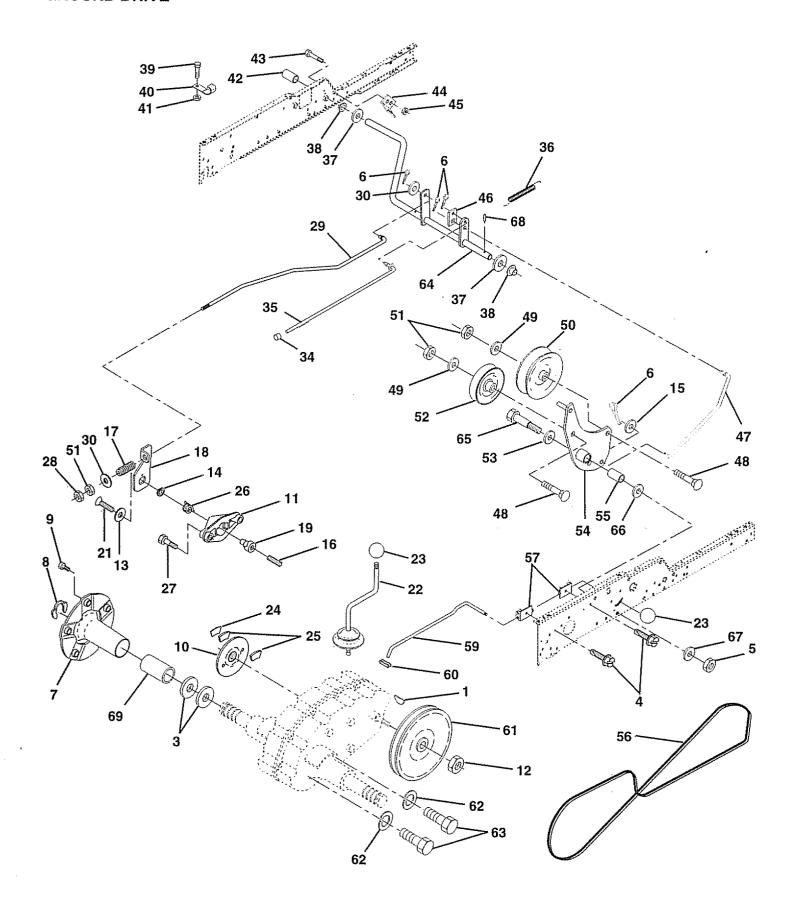
TRACTOR - - MODEL NUMBER 917.251551

CHASSIS AND ENCLOSURES

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO,	DESCRIPTION
1	150253	Rail, Frame RH	40	142132	Bracket, Support Axle/Engine
ż	140506	Drawbar, Gt	41	17580408	Screw Tap Tite 1/4-20 x 1/2
3	136671X558	Panel Asm., Side LH	42	72140608	Bolt, Carriage 3/8-16 x 1
4	73800700	Nut, Lock Hex 7/16 Unc	43	136939	Bracket, Spnsn Front Lh
5	145203	Dash, Plastic Black	44	136940	Bracket, Spnsn Front Rh
6	150273	Dash, Lower Vgt One Piece	45	138460	Bracket Asm., Susp Chassis Rh
7	17720408	Screw, Thd Cut 1/4-20 x 1/2		17490608	Screw Thdrol. 3/8-16 x 1/2
8	145166	Support, Battery	48	142133	Bracket Asm., Pivot Hood Lh
9	108067X	Nut, Pal		142134	Bracket Asm., Pivot Hood Rh
10	19092016	Washer 9/32 x 1-1/4 x 16 Ga.		152728	Bracket, Chassis Front
11	137270	Rivet, Ratchet Male	52	STD541431	Nut, Crownlock 5/16-18 Unc
12	137269	Washer, Nylon	56	138461	Bracket Asm., Susp Chassis Lh
13	137271	Rivet, Ratchet Female	57	73640400	Nut, Keps, Blk Hex 1/4-20 UNC
14	136673X558	Hood Asm., Pnt		137113	Bracket Asm., Fender
15	136374	Lens, Bar Clear		74180412	Screw, Mach Cr 1/4-20 x 3/4
16	121794X	Cover, Access		17490620	Screw Thdrol. 3/8-16 x 1-1/4
17	17490612	Screw, Thdrol 3/8-16 x 3/4		19131614	Washer 13/32 x 1 x 14 Ga.
18	136373X428	Grille		144283	Washer, Serrated Disc 13/32 x 1
19	19131312	Washer 13/32 x 13/16 x 12 Ga.	67	140737	Guide, Belt T/A
20	STD523710	Bolt, Fin Hex 3/8-16 x 1		17490508	Screw Thdrol 5/16-18 x 1/2
21	STD541437	Nut Crownlock 3/8-16 Unc		137159	Guide, Belt Mid Span
22	136670X558	Panel Asm., Side RH	77	137308	Shield, Front
23	17490616	Screw Thdrol 3/8-16 x 1 Ty-Tt	84	142992	Stop, Över Center Mower
24	145243X558	Footrest, RH	85	144911	Bracket, Support Transaxle Bolt, Fin Hex 7/16-14 Unc x 1
28	145244X558	Footrest, LH		74760716	Washer, Lock Hvy Hlcl Spr 7/16
29	145349	Bracket, Support Dash		STD551143 STD551237	Washer, Lock External Tooth 3/8
30	145051X014	Saddle, Slkscr Vgt		150851	Rail, Frame Lh
31	145183	Brace, Support Steering		146967X011	Plate, Silkscreen Dash
32	141315	Bracket Asm., Frame Pivot Lh			Clip, Fuel Line
33	141314	Bracket Asm., Frame Pivot Rh		100207K	
34	142131	Bracket, Engine Support Rear	95	105531X 138776	Push Nut, Nylon Screw, Thdrol Hex Head Zinc Mwr
35	19111116	Washer 11/32 x 11/16 x 16 Ga.		19131616	Washer 13/32 x 1 x 16 Ga.
36	74780512	Bolt, Fin Hex 5/16-18 x 3/4	120	8022J	Plug, Hole
37	121642X558				*
38 39	19091216 136961	Washer 9/32 x 3/4 x 16 Ga. Bracket, Axle Front	ТОИ	E: All compor 1 inch = 25	nent dimensions given in U.S. inches 5.4 mm

TRACTOR - - MODEL NUMBER 917.251551

GROUND DRIVE



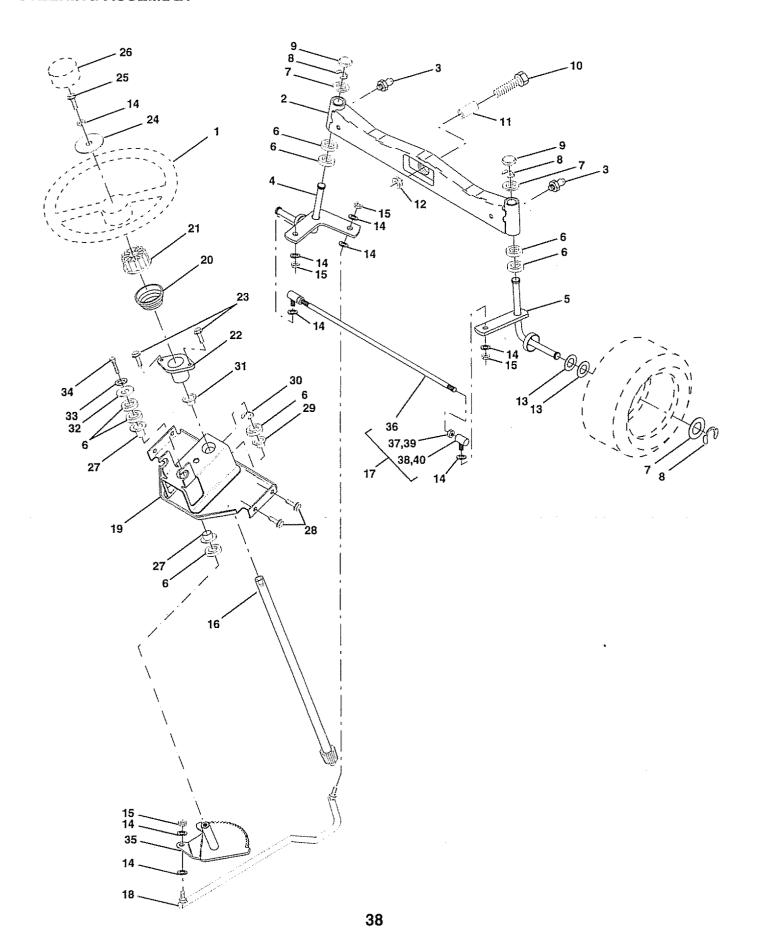
TRACTOR - - MODEL NUMBER 917.251551

GROUND DRIVE

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 3 4 5 6 7 8 9 10 11 21 31 4 5 6 7 8 9 10 11 21 31 4 5 6 7 8 9 22 22 22 22 22 22 22 22 23 33 35	9858M1 7563R 17490508 STD541437 STD561210 149176 12000034 140080 142509 136927 9204H 139419 138901 STD551037 143012 126909X 137104 136926 23260412 633A109 106932X 136925 136923 137552 17490528 73350600 137213 19131616 124236X 137648	Key, Woodruff Washer, Thrust, Axle Screw Thdrol 5/16-18 x 3/4 Nut, Crownlock 3/8-16 Pin, Cotter Wheel, Hub Assembly Klip, Ring Bolt, Hub Disc, Brake Yoke, Brake Disc Locknut 1/2-20 Washer, Special Bushing Wahser 13/32 x 13/16 x 16 Ga. Set, Screw 1/4-28 x 3/4 Spring Lever, Brake Cam, Brake Disc Screw, Flat Head 1/4-28 x 3/4 Gearshift, Lever Assembly Knob Support, Puck Brake Puck, Brake Top Spring, Return Screw, Hex Wsh Thd. 5/16-18 x 1-3/4 Nut, Hex Jam 3/8-16 Brake, Rod Washer 13/32 x 1 x 16 Ga. Cap, Plunger Rod, Parking Brake	39 40 41 42 43 44 45 46 47 48 49 51 52 53 55 56 66 66 66 66	150035 74321016 5304J 73631000 8883R 74760412 104601X 73800400 145170 138228 72110614 19131413 131494 STD541437 139123 207J 138390 105706X 137153 141756 122253X 127531143 74760720 137649 67609 140296 19131312 5142H 136327	Nyliner Screw, Fin. #10-24 x 1 Actuator, Interlock Switch Locknut #10-24 Cover, Pedal Bolt, Hex 1/4-20 x 3/4 Bracket, Interlock Locknut w/Insert 1/4-20 Retainer, Spring Clutch Rod Bolt, Carriage 3/8-16 x 1-3/4 Gr. 5 Washer 13/32 x 7/8 x 13 Ga. Pulley, Idler, Flat Nut, Crownlock 3/8-16 UNC Pulley, Idler, Grooved Washer, Hardened Clutch, Arm Assembly Bearing, Idler V-Belt Bracket, Shift Rod, Hi-Lo Shift Rod, Hi-Lo Spring Clip, Connecting Link Pulley, Transaxle Washer, Lock 7/16 Bolt, Fin Hex 7/16-14 x 1-1/4 Shaft, Clutch/Brake Pedal Bolt, Shoulder Washer, Flat Pin, Roll Hub, Cover
36 37	149412 121749X	Spring, Drive Ground Washer 25/32 x 1-1/4 x 16 Ga	ТОИ	E: All compor 1 inch = 25	nent dimensions given in U.S. inches i.4 mm

TRACTOR - - MODEL NUMBER 917.251551

STEERING ASSEMBLY



TRACTOR - - MODEL NUMBER 917.251551

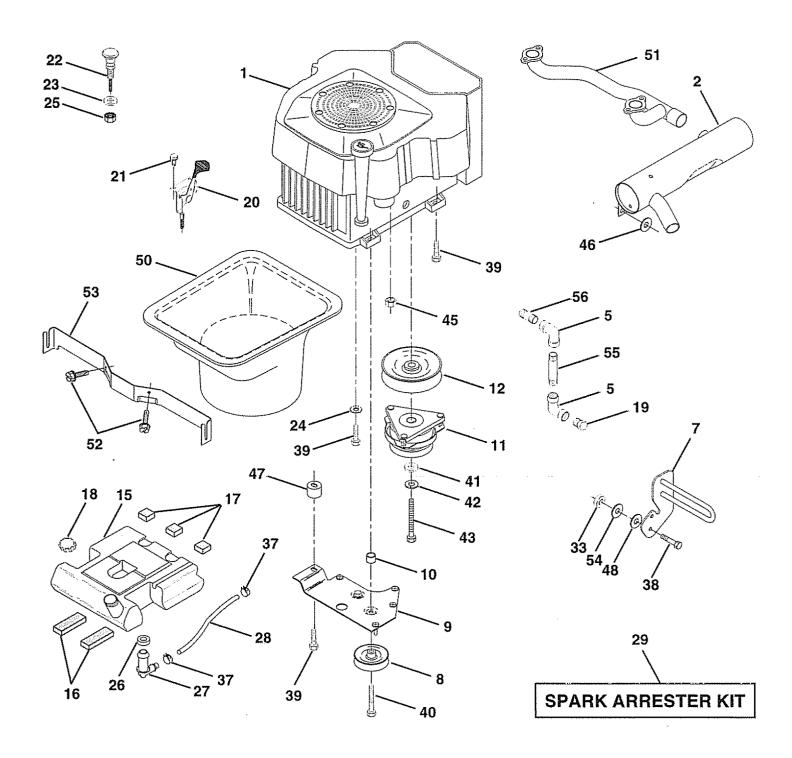
STEERING ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9	121472X 137094 6855M 136960 136959 6266H 121748X 12000029	Wheel, Steering Axle Asm., Front Fitting, Grease Spindle Asm, LH Spindle Asm., RH Bearing, Race Thrust Harden Washer 25/32 x 1-5/8 x 16 Ga. Ring, Klip #T5304-75 Can Spindle
9 10 11 12 13 14 15 16 17	73610600 145103	Cap, Spindle Bolt, Fin Hex 5/8-11 x 2-3/4 Spacer, Brg. Axle Front Nut, Lock Flange 5/8-11 Unc Washer 25/32 x 1-1/4 x 16 Ga. Washer, Lock Hvy Hlcl Spr 3/8 Nut, Fin Hex 3/8-24 Unf Shaft Asm., Steering Rod Asm., Tie Ball J Ball Vgt (Inc.
18 19 20 21 22 23	137155 146611 145182 100711L 1554J 152927 19133808	Key No. 36-40) Draglink, Ball Joint Solid Vgt Support Asm., Steering Vgt Column, Steering Adapter, Wheel Steering Bushing, Strg. Blk Screw Washer 13/32 x 2-3/8 x 8 Ga.
24 25 26 27 28 29 30 31	STD523710 126805X 3366R 17490612 104239X 12000034 138136	Bolt, Fin Hex 3/8-16 x 1 Gr. 5 Cap , Wheel Steering Bearing, Col. Strg. Screw, Thrdrol 3/8-16 x 3/4 Bearing, Flange Ring, Klip Truarc #5304-75 Bushing, Nyliner Snap
32 33 34 35 36 37 38 39 40	19111610 STD551131 STD523107 138059 137156 73360600 109850X 73700600 109851X	Washer 11/32 x 1 x 10 Ga. Washer, Lock Hvy Hlcl Spr 5/16 Bolt, Hex Hd 5/16-18 x 3/4 Gear, Sector Steering Tie Rod Jam Nut RH Thread Joint Asm. Ball RH Thread Joint Asm. Ball LH Thread Joint Asm. Ball LH Thread

NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER 917.251551

ENGINE



TRACTOR - - MODEL NUMBER 917.251551

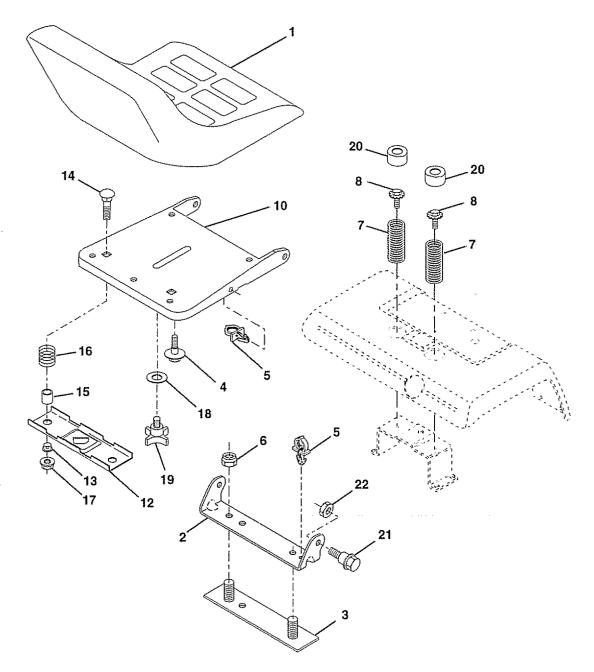
ENGINE

KEY NO.	PART NO.	DESCRIPTION
1 2 5 7	140847 144636 13200300 151396	Engine Kohler 22 CV22 PS-67515 Muffler Asm Elbow STD 90 Degree 3/8 - 18 NPT Muffler Asm Guard Pulley V-Idler
8 9 10	121361X 145109 105432X	Stop Keeper Asm VGT Bushing
	140923 143996 151346 109227X	Clutch Electric Pulley Engine VGT Elect Clutch Tank Fuel Rear 3.50 Yt/Gt 96 Pad Spacer
17 18 19	109227X 106082X 151296 13290300	Pad Spacer Cap Asm Fuel W/Gauge Vented Plug Oil Drain (Order From Engine Manufacturer)
20 21 22	132755 17720410 132779	Control Throttle Screw Hex Thd Cut 1/4 - 20 X 5/8 Control Choke
23 24 25		Washer 13/32 X 1 - 5/8 X 16 Ga Washer Ext Tooth 3/8 Nut Keps 3/8 - 24 UNF
26 27 28 29	3645J 139277 7834R 132920	Bushing Stem Tank Fuel Fuel Line Spark Arrester Kit
33 37 38	STD541437 123487X	Nut Lock Hex w/lns. 3/8 - 16 Clamp Hose Bolt Fin Hex 3/8 - 16 x 1-1/2
39 40 41	17490636 17490664 126197X	Screw TT 3/8-16 x 2-1/4 UNC Screw TT 3/8-16 x 4 UNC Washer 1-1/2 OD X 15/32 ID X .250
42 43 45 46	STD551143 150280 128861 19131616	Washer Lock 7/16 Bolt Hex 7/16 - 20 X 4 - 1/4 Ga 5 Nut Flange 1/4-20 Starter Nut Washer 13/32 x 1 x 16 Ga.
47 48 50	142040 19132007 143020	Spacer Engine Washer 13/32 x 1-1/4 x 7 Ga. Duct Air
51 52 53		Pipe Crossover Screw Tap 1/4 - 20 x 1/2 Bracket Duct Air Rear Sup
54 55 56	19131414 13090336 13090308	Washer Flat 13/32 x 7/8 x 14 Ga. Nipple Pipe 3/8NPT X 4-1/2 Nipple Pipe 3/8 x 1

NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER 917.251551

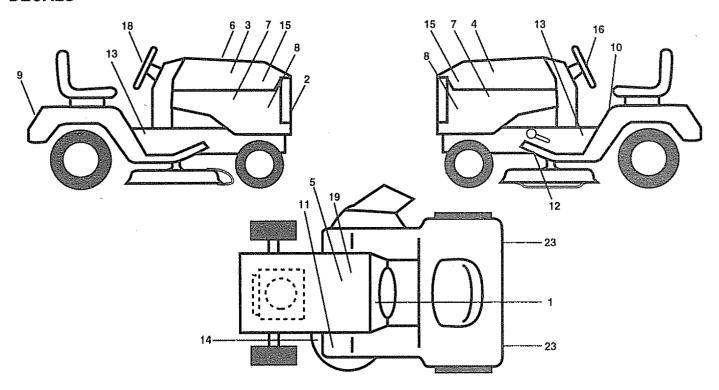
SEAT ASSEMBLY



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
			.,		
1	140124	Seat	14	72050411	Bolt, Carriage 1/4-20 X 1-3/8
2	140551	Bracket, Pivot Seat	15	121249X	Spacer, Split
3	140675	Strap, Fender	16	123740X	Spring, Cprsn
4	127018X	Bolt, Shoulder 5/16-18 x .62	17	123976X	Nut, Lock 1/4 Lge Flg Gr. 5
5	145006	Clip, Push In, Hinged	18	19171912	Washer 17/32 x 1-3/16 x 12 Ga.
6	STD541437	Nut, Crownlock 3/8-16 Unc	19	120068X	Knob, Seat 1/2-13 Unc
7	124181X	Spring, Seat Cprsn	20	124238X	Cap, Spring Seat
8	150176	Bolt 5/16-18 Unc x 3/4 w/Sems	21	153236	Bolt, Shoulder 5/16-18
10	140552	Pan, Seat	22	STD541431	Nut, Crownlock 5/16-18 Unc
12	121246X	Bracket, Mounting Switch			,
13	121248X	Bushing, Snap	NOT	E: All compor	nent dimensions given in U.S. inches

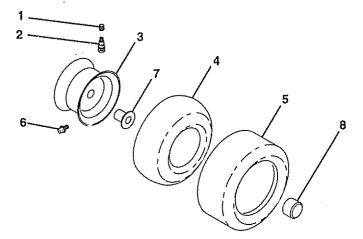
TRACTOR - - MODEL NUMBER 917.251551

DECALS



KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
1 2 3 4 5	138955 151448 146705 146706 149516	Decal, Operating Instruction Decal, Grill Decal, Hood, Craftsman, RH Decal, Hood, Craftsman, LH Decal, Battery DNGR/PSN ENG Asm	13 14 15 16 18	148957 139346 151568 150333 146710 138047	Decal, Chassis, 6 Speed/50" Decal, V-Belt Schematic Decal Hood Insert Decal, Cap CNSMR Help Line SRS Decal, Insert Strg Decal, Battery
6 7 8 9 10 11 12	133644 138048 142241 146709 137537 4900J 146047	Decal, Maintenance Decal, Side Panel Decal, Side Panel Decal, Fender, Craftsman Decal, Caution Decal, Clutch/Brake Decal, V-Belt Drive Schematic	23	106202X 138311 145245 145247 154441 154442	Reflector, Taillight Decal, Handle Lft Height Adjust (Lift Handle) Pad, Footrest Fastener, Pop-In Footrest Manual, Owner's (Eng) Manual, Owner's (Span)

WHEELS & TIRES



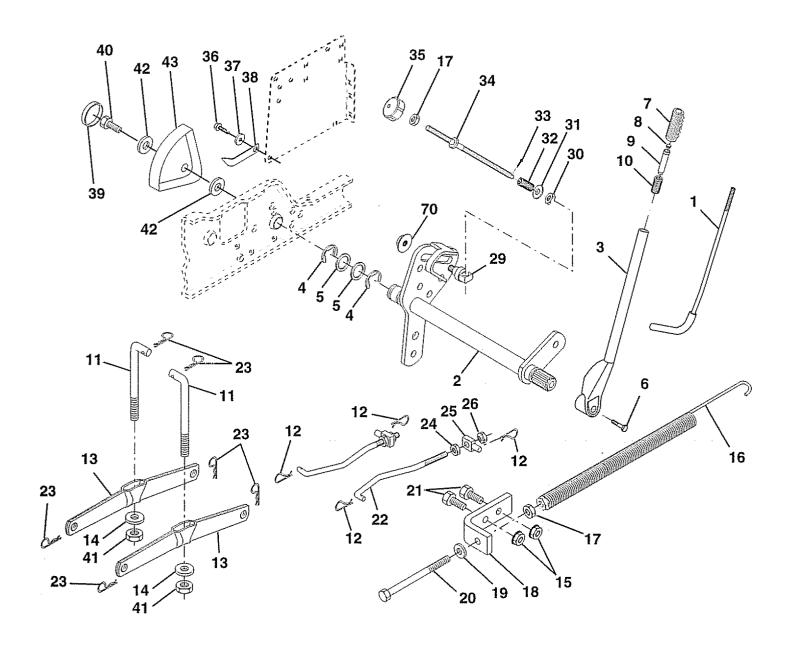
KEY PART NO. NO. DESCRIPTION

1	59192	Cap, Valve, Tire
2	65139	Stem, Valve
3	148736X427	Rim Assembly, Front
3		
	148738X427	Rim Assembly, Rear
4	8134H	Tube, Front (Service Item Only)
	7154J	Tube, Rear (Service Item Only)
5	148741	Tire, Front
	151607	Tire, Rear
6	278H	Fitting, Grease (Front Wheel Only)
	6856M	Fitting, Grease
7	9040H	Bearing, Flange (Front Wheel Only)
8	104757X	Cap, Axle (Front Wheel Only)
	144334	Sealant, Tire (10 oz Tube)

NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - MODEL NUMBER 917.251551

LIFT ASSEMBLY



TRACTOR - - MODEL NUMBER 917.251551

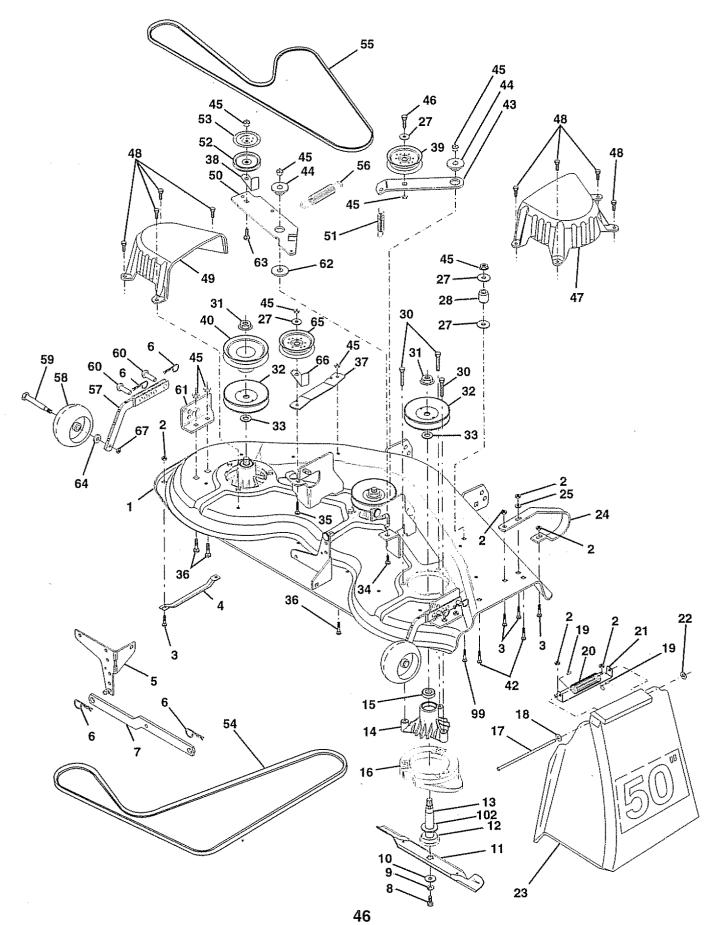
LIFT ASSEMBLY

KEY NO.	PART NO.	DESCRIPTION
123456789011234567890112345678901123456789011234456789011234456789011234456789011234456789011233456789000112334567890001123345678900011233456789000000000000000000000000000000000000	140302 STD541437 674A247 STD541237 143363 STD551037 5328J STD523710 127218	Rod Asm., Lever Shaft Asm., Lift Vgt Lever Asm., Lift Rh E-Ring Truarc #5133-87 Washer 29/32 x 1-1/4 x 16 Ga. Bolt, Fin Hex 3/8-16 x 1-1/2 Grip, Handle Fluted Button, Plunger Plunger, Lever Lift Spring 2-1/8" Link Lift Retainer, Spring Arm, Suspension Vgt Bearing Nut, Crownlock 3/8-16 Unc Spring Asm., Assist Lift Nut, Hex Jam 3/8-16 Unc Bracket, Spring Assist Washer 13/32 x 13/16 x 16 Ga. Bolt, Adjust Spring Assist Bolt, Fin Hex 3/8-16 x 1 Link, Front Retainer, Spring Nut, Jam Hex 1/2-13 Unc Trunnion Nut, Lock W/Wsh 1/2-13 Unc Trunnion, Infin Height Nut, Special Washer 13/32 x 5/8 x 16 Ga. Spring, Compression Inf Hgt Pin, Cotter 3/32 x 1/2 Rod, Adj Lift Knob, Inf 3/8-16 Unc Screw, Thdrol 3/8-16 x 3/4 Washer, Nylon Pointer, Pnt Height Indicator Plug, Hole Screw Hex Wsh 5/16-18 x 3/4 Nut, Crownlock 3/8-24 Washer 11/32 x 1-1/2 x 10 Ga. Scale, Indicator Height Nut Hex Flange Lock

NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER 917.251551

MOWER DECK



TRACTOR - - MODEL NUMBER 917.251551

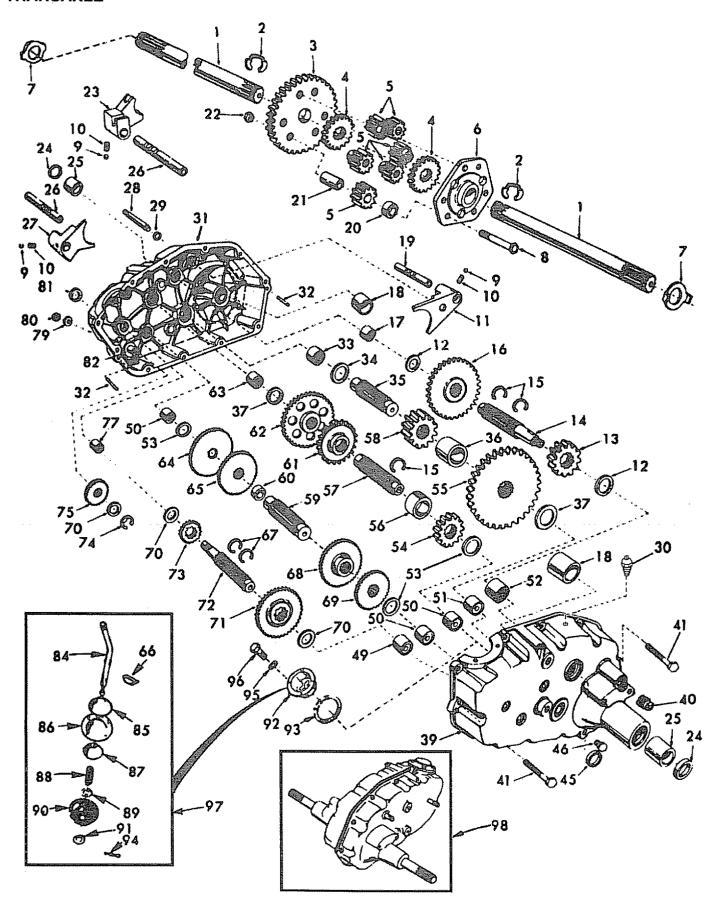
MOWER DECK

"3

KEY NO.	PART NO.	DESCRIPTION	KEY NO.	PART NO.	DESCRIPTION
12345678901123	136457 STD541431 72110506 7631J 138457 4939M 130832 850857 STD551137 140296 137380 129895 137553 137152 110485X 140329 106735X 19111016 105304X 123713X 137607 110452X 110509X 136320 19111216 STD551037 132823 138776 137266 153535 129963 72140610 72110616 72110608 137166	Mower Housing Nut, Crownlock 5/16-18 Bolt, Carriage 5/16-18 x 3/4 Runner, Mower LH Bracket Asm., Sway Bar Retainer, Spring Arm Suspension, Rear Bolt 3/8-24 x 1.25 Gr. 8 Patched Washer, Lock Hvy 3/8 Unplated Washer, Hard Blade Mower Vented Blade Bearing, Ball #6204 (Mandrel) Shaft Asm., W/Lower Brg (Includes Key No. 12) Housing, Mandrel Bearing, Ball Mandrel Stripper, Mower Vented Rod, Hinge Washer 11/32 x 5/8 x 16 Ga. Cap, Sleeve Spring, Torsion Deflector Bracket, Deflector Nut, Push Shield, Deflector Mower Runner, RH Washer 11/32 x 3/4 x 16 Ga. Washer 13/32 x 13/16 x 16 Ga. Spacer, Spring Stop Idler Screw Thdrol Hex Hd Nut, Flg Top Lock Cntr 9/16 Pulley, Mandrel Washer, Spacer Mower Vented Bolt, Carriage 3/8-16 x 1-1/4 Bolt, Carriage 3/8-16 x 2 Bolt, Carriage 3/8-16 x 1 Gr. 5 Stiffener, Arm Idler	42 43 44 45 46 47 48 49 55 55 55 55 55 55 66 66 67 99 10 10 10 10 10 10 10 10 10 10 10 10 10	72110614 153390 143651 141051	Pulley, Idler Flat Pulley, Driven Bolt, Carriage 5/16-18 Unc x 3/4 Arm, Idler Secondary Spacer, Retainer Nut, Crownlock 3/8-16 Unc Bolt, Fin Hex 3/8-16 Unc x 1-3/4 Cover, Mandrel RH Screw, Thd Roll 1/4-20 x 5/8 Cover, Mandrel LH Arm, Idler Primary Spring, Secondary Pulley, Idler V Groove Shield, Idler V-Belt, Mower Primary V-Belt, Mower Secondary Spring, Primary Bar Asm., Wheel Gauge Wheel, Gauge Bolt, Shoulder Pin, Clevis Bracket, Wheel Gauge Washer Hardened Bolt Carriage 3/8-16 x 1-1/2 Washer 3/8 x 3/4 x 14Ga Pulley Idler Flat Keeper Belt Idler Nut, Centerlock 3/8-16 Bolt, Carriage 3/8-16 x 1-3/4 Gr. 5 Washer Felt Mandrel Asm Service (Includes Key Nos. 8-10, 12-15, 31 and 33) Mower Asm. Service (Std. Deck- Order all gauge wheel components separately)
38	137554	Keeper, Belt Idler	ιάΩ	1 inch = 25	nent dimensions given in U.S. inches 5.4 mm

TRACTOR - - MODEL NUMBER 917.251551

TRANSAXLE

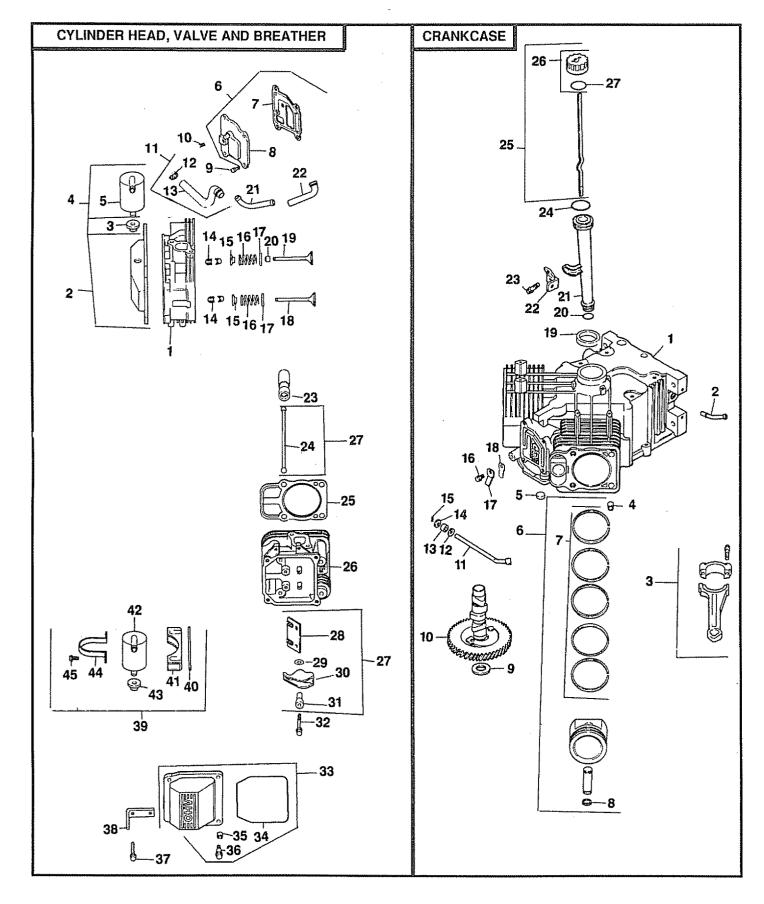


TRACTOR - - MODEL NUMBER 917.251551

TRANSAXLE

KEY NO.	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8	4197R 12000034 4199R 4216R 4215R 4217R 6256H 74020652	Axle Shaft Retaining Ring Final Drive Gear Differential Gear Differential Pinion Differential Carrier Axle Thrust Washer Bolt, Hex Head 3/8-24 x 3-1/4	54 55 56 57 58 59	8119M 4220R 4209R 4213R 4442R 4195R 4214R 4194R 7528R	Needle Bearing Thrust Bearing Race 3rd Reduction Pinion, Low 4th Reduction Gear 3rd Reduction Pinion Spacer 2nd Reduction Gear Shaft Final Drive Pinion 1st Reduction Gear Shaft 1st Reduction Shaft Spacer
9 10 11 12 13	7392M 137261 4985R 6266H 4212R	(1" Thread Length) Steel Ball Spring Shift Fork Detent Shift Fork, High-Low Range Thrust Bearing Race 4th Reduction Pinion	61 62	4208R 4207R 7398H 4203R	3rd Reduction Plnion HIgh 2nd Reduction Gear Needle Bearing Low Speed Gear and 2nd Reduction Pinion Cluster
14 15 16 17 18	137125 6276H 633A63 8118M 8740H1	Shaft, Brake Snap Ring, Crescent Type High-Low Range Gears Needle Bearing Sintered Iron Bearing	66 67 68 69	4204R 2898J 12000033 4205R 4206R	Reverse Gear Key, Hi-Pro 1/8 x 17/32 Klip Ring Intermediate Speed Gear High Speed Gear
19 20 21 22 23	122238X 4218R 6252H1 7810H 6262H	Shift Fork Shaft, High-Low Range Differential Pinion Spacer Differential Pinion Bushing Gripco Centerlock Nut 3/8-24 Shift Fork, R.H.	71 72 73	1370H 633A69 139120 4201R	Thrust Bearing Race Intermediate and High Speed Cluster Pinions Input Shaft Low Speed Pinion
24 25 26 27 28 29	7393R 992R1 139111 4986R 122254X	Oil Seal Sintered Iron Bearing Shift Fork Shaft Shift Fork, L.H. Shift Shaft, High-Low Range Oil Seal	75 77 79	12000008 1153R 6803J 1167R 73360700 6270H	E-Ring Reverse Idler Gear Needle Bearing Sealing Washer Nut, Hex, Jam 7/16-20 Oil Seal
30 31 32	6269H 5855H 139538	Pressure Relief Valve Gearcase, Reverse Idler Shaft and Bearings, R.H. (Includes Key No.'s 17,18, 25, 33, 50, 63, 77 and 82) Dowel Pin	82 84 85 86	136984 5384J 2978J 633A85 8739H1	Reverse Idler Shaft Gearshift Lever, Bent Gearshift Cap Gearshift Ball Cover and Pin Shift Lever Guide Ball, Keyed
33 34 35 36 37 39	4225R 7396H 4198R 4200R 7395H 139536	Needle Bearing Thrust Bearing Race 4th Reduction Gear Shaft 4th Reduction Gear Spacer Thrust Bearing Race Gearcase and Bearings, L.H. (Includes Key Numbers 18, 25, 49, 50 (2), 51 and 52)	88 89	4924H 19151516 110542X 19181511 75J	Spring Washer 15/32 x 15/16 x 16 Gauge Shift Mechanism Seal Washer 9/16 x 15/16 x 12 Gauge Gearshift Gate and Reinforcement Shift Ball Cover Gasket Cotter Pin 1/8 x 3/4 Washer, Lock 5/16
40 41 45 46 49 50 51	13320400 17580520 6271H 13060200 4895H 4222R 1529R	Pipe Plug 1/2-14 N.P.T. Bolt, Hex 5/16-18 UNC x 1-1/4 Oil Seal Pipe Plug 1/4-18 N.P.T. Needle Bearing Needle Bearing Needle Bearing	96 97 98	74760514 633A109 140332	Bolt, Hex Head 5/16-18 UNC x 7/8 Gearshift Lever Assembly Transaxle, 6 Speed, Complete Assembly ent dimensions given in U.S. inches

TRACTOR - - MODEL NUMBER 917.251551



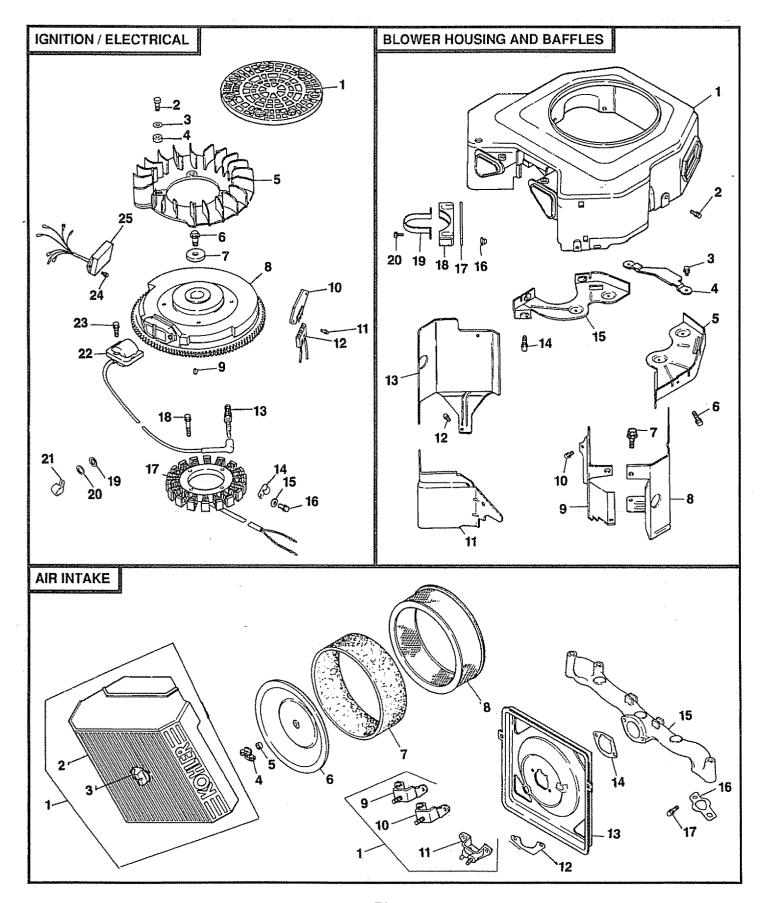
TRACTOR - - MODEL NUMBER 917.251551

KOHLER ENGINE - MODEL NUMBER CV22 - PS67515

CYLINDER HEAD/VALVE/BREATHER			CRA	NKCASE	
	PART NO.	DESCRIPTION		PART NO.	DESCRIPTION
1 2 3 4 5 6 7 8 9 0 1 1 2 1 3 1 4 5 6 7 8 9 0 1 1 2 1 3 1 4 5 6 7 8 9 0 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	24 318 11 24 096 16 24 755 20 25 313 02 24 096 15 X-75-23 SM-0645020 24 326 05 12 755 03 12 173 01 24 089 02 52 018 01 24 016 01 24 017 01 24 032 05 24 294 02 24 326 04 12 351 01 24 411 04 24 041 08 24 318 12 24 186 02 24 194 01 M-0640034 24 096 12 12 086 16 M-0651030 24 445 01	Head Assembly, #1 Cylinder Cover, Rocker, #1 Side Kit, Breather (Includes 4) Grommet, Rubber Cover, Breather Plug, Hex, Countersunk 1/8 N.P.T.F. Screw M6 x 1.0 x 20 (4) Hose, Breather Kit, Retainer (4) Cap, Valve Spring (4) Spring, Valve (4) Retainer, Spring (4) Valve, Exhaust (2) Valve, Intake (2) Seal, Valve Stem (2) Fitting Hose, Breather Lifter, Valve (4) Rod, Push (4) Gasket, Cylinder Head (2) Head Assembly, #2 Cylinder Arm, Rocker (4) Ball, Pivot-Rocker (4) Screw M6 x 1.0 x 34 (4) Cover, Rocker, #2 Side Screw M10 x 1.5 x 91 (8) Screw M6 x 1.0 x 30 (8) Strap, Lfting	11 12 13 14 15	25 155 02 24 067 01 24 067 02 12 380 03 52 139 09 24 874 01 24 874 02 24 874 03 24 108 01 24 108 02 24 108 03 24 018 01 12 422 09 12 422 10 12 422 10 12 422 10 12 422 10 12 422 11 12 422 12 24 010 03 24 144 01 X-25-63 12 032 01 X-25-63 12 032 01 X-25-102 12 380 04 M-0545010 24 018 04 24 02 01 24 032 01 12 153 01 12 123 04 24 126 19 M-0549016 12 153 03 12 153 03	Cylinder Block (Use Miniblock) Connector, 90° Connecting Rod (Standard) (2) Connecting Rod (.25) (2) Pin, Dowel Locating (6) Plug, Cup Piston with Ring Set (Standard) (2) Piston with Ring Set (.25) (2) Piston with Ring Set (.50) (2) Ring Set (Standard) (2) Ring Set (.25) (2) Ring Set (.50) (2) Retainer, Piston Pin (4) Shim, Camshaft (As Required) Camshaft Shaft, Governor Cross Washer, Plain 1/4 Seal, Governor Cross Shaft Washer, Plain 1/4 Pin, Hitch Screw, Reed Retainer M5 x 0.8 x 10 (2) Retainer, Reed (2) Reed, Breather (2) Seal, Oil O-Ring, Lower Oil Fill Tube Tube, Oil Fill Bracket, Oil Fill Tube Screw, Oil Fill Tube Screw, Oil Fill Tube Dipstick Assembly (Includes 26-27) Kit, Oil Fill Cap (Includes 27) O-Ring, Dipstick

NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER 917.251551



TRACTOR - - MODEL NUMBER 917.251551

KOHLER ENGINE - MODEL NUMBER CV22 - PS67515

IGNITION/ELECTRICAL

KEY NO.	PART NO.	DESCRIPTION
1	24 162 17	Screen, Grass
2	M-0401025	Screw, Grass Screen M4 x 0.7 x 24 (4)
3	X-25-92	Washer, Plain 1/2 (4)
4	24 112 04	Spacer, Fan (4)
5	24 157 03	Fan
3 4 5 6 7 8	M-0639016	Screw M6 x 1.0 x 16 (4)
7	12 112 01	Spacer, Fan (4)
8	24 025 05	Flywheel Assembly
9	X-42-15	Key
10	25 403 03	Rectifier-Regulator
12	24 086 06 236602	Screw, Phillips (2) Connector, Rectifier-Regulator,
12	200002	3 Contact
13	12 132 02	Spark Plug (2)
	48 154 02	Clip, Cable
15	12 468 03	Washer, Stator Harness Clip
	12 086 14	Screw, Stator Harness Clip
		M10 x 1.5 x 46
	24 085 01	Stator, 15 Amp
18	M-0548025	Screw, Stator Mounting
19	X-25-63	M5 x 0.8 x 25 (2) Washer, Plain 1/4 (2)
	X-25-92	Washer, Plain 1/2 (2)
	47 154 01	Clip, Cable
22	24 584 03	Module, Ignition (2)
23	M-0560020	Screw, Module M5 x 0.8 x 20 (4)
	M-0448010	Screw, Module M4 x 0.7 x 10 (2)
	24 584 05	Module, Speed Advance
	ILLUSTRATED	
	24 176 27 24 518 04	Harness, Wire Lead, Green (3", 18 Gauge,
	CT 010 04	Insulated Grip Barrel Eyelets)
	24 113 18	Decal, Grass Screen
		*

BLOWER HOUSING & BAFFLES

KEY NO.	PART NO.	DESCRIPTION
1 2	24 027 20 M-0549016	Housing, Blower Screw M5 x 0.8 x 16 (3)
2 3 4	SM-0645016	Screw M6 x 1.0 x 16 (4)
4	24 314 05	Guard, Flywheel
	24 146 02	Plate, Backing, # 2 Side
6 7	M-0545020 M-0551016	Screw M5 x 0.8 x 20 (2) Screw M5 x 0.8 x 14
	24 063 20	Baffle, Cylinder Barrel, # 2 Side
	24 063 23	Baffle, Valley, # 1 Side
	M-0549010	Screw M5 x 0.8 x 10 (2)
11	24 063 14	Baffle, Valley, # 2 Side
	M-0549016	Screw M5 x 0.8 x 16 (2)
	24 063 19	Baffle, Cylinder Barrel, # 1 Side
	M-0649016	Screw M6 x 1.0 x 16 (2)
	24 146 08	Plate, Backing, # 1 Side
	24 100 01 47 154 01	Nut, Plastic Clip, Cable
	24 086 12	Screw, Cable Clip
	ILLUSTRATED	
	24 100 01	Nut, Plastic (3)
		(Included with Blower Housing)
	24 100 02	Nut, Plastic (2)
		(Included with Blower Housing)
Arr 200	25 139 16	Plug, Button 9/16
	24 113 23	(Included with Blower Housing) Decal, Horsepower

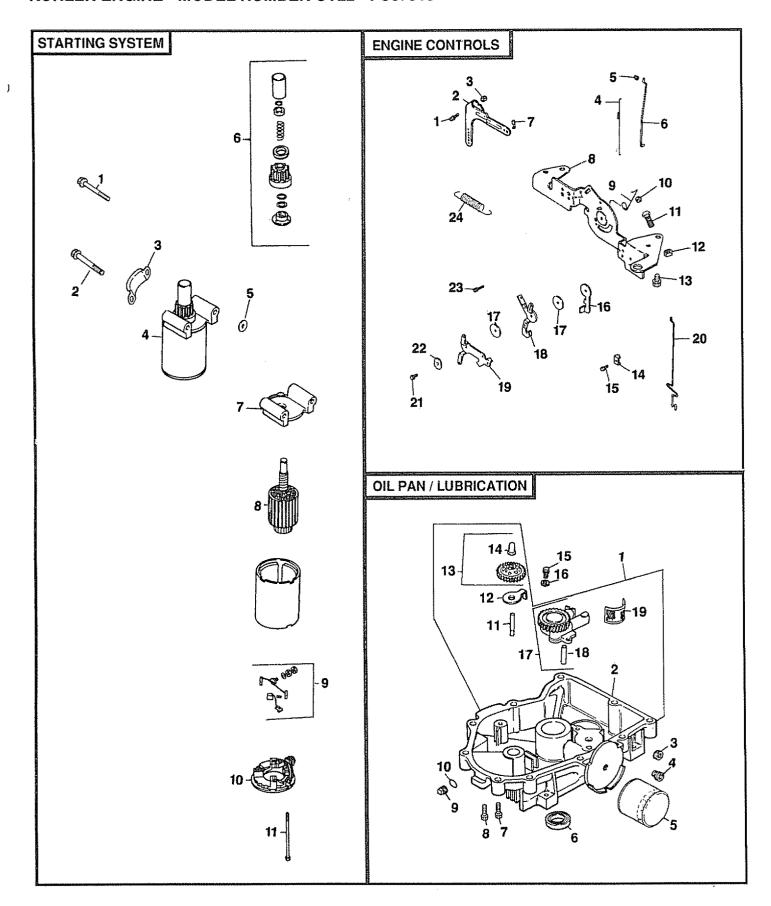
AIR INTAKE

KEY PART

NO.	DESCRIPTION
24 743 01	Kit, Air Cleaner Cover (Includes Key Numbers 2 thru 4)
24 089 04	Spring, Latch (2)
24 344 01	Latch, Lever (2)
24 380 03	Pin, Latch Lever (2)
12 100 01	Wing Nut
24 032 03	Seal, Air Intake
24 096 01	Cover, Inner Air Cleaner
24.083 02	Element, Pre-Cleaner
47 083 03	Element, Air Cleaner
24 109 01	Cup, Fuel Spitback
24 041 13	Gasket, Fuel Spitback Cup
24 094 02	Base, Air Cleaner
24 041 14	Gasket, Air Cleaner Base
24 164 06	Manifold, Intake
24 041 01	Gasket, Intake Manifold (2)
M-0639055	Screw M6 x 1.0 x 18 (4)
	24 743 01 24 089 04 24 344 01 24 380 03 12 100 01 24 032 03 24 096 01 24 083 02 47 083 03 24 109 01 24 041 13 24 094 02 24 041 14 24 164 06 24 041 01

NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER 917.251551



TRACTOR - - MODEL NUMBER 917.251551

KOHLER ENGINE - MODEL NUMBER CV22 - PS67515

OIL PAN/LUBRICATION

KEY NO.	PART NO.	DESCRIPTION
	24 199 02	Oil Pan
2	X-75-32	Plug, Hex, Countersunk, 3/8 N.P.T.F.
3	24 136 01	Nipple, Oil Filter
4	12 050 01 52 032 08	Filter, Oil
5	52 032 08	Seal, Oil (PTO End)
6	24 086 17	Screw, Oil Pan M8 x 1.25 x 45
	24 086 16	Screw, Oil Pan M8 x 1.25 x 45 (9)
8	X-75-10	Plug, Solid, Square Head,
		3/8 N.P.T.F.
9	24 153 08	O-Ring
10	12 144 02	Shaft, Governor Gear
11	52 448 02	Tab, Locking
12	24 043 11	Governor Gear Assembly
13	12 380 01	Pin, Governor Regulating
14	M-0645025	Screw M6 x 1.0 x 25 (2)
15	SM-0631005	Washer, Plain (2)
16	24 393 05	Oil Pump Assembly (Includes 17)
17	24 123 05	Tube, Oil Pickup
18	12 162 02	Screen, Oil

STARTING SYSTEM

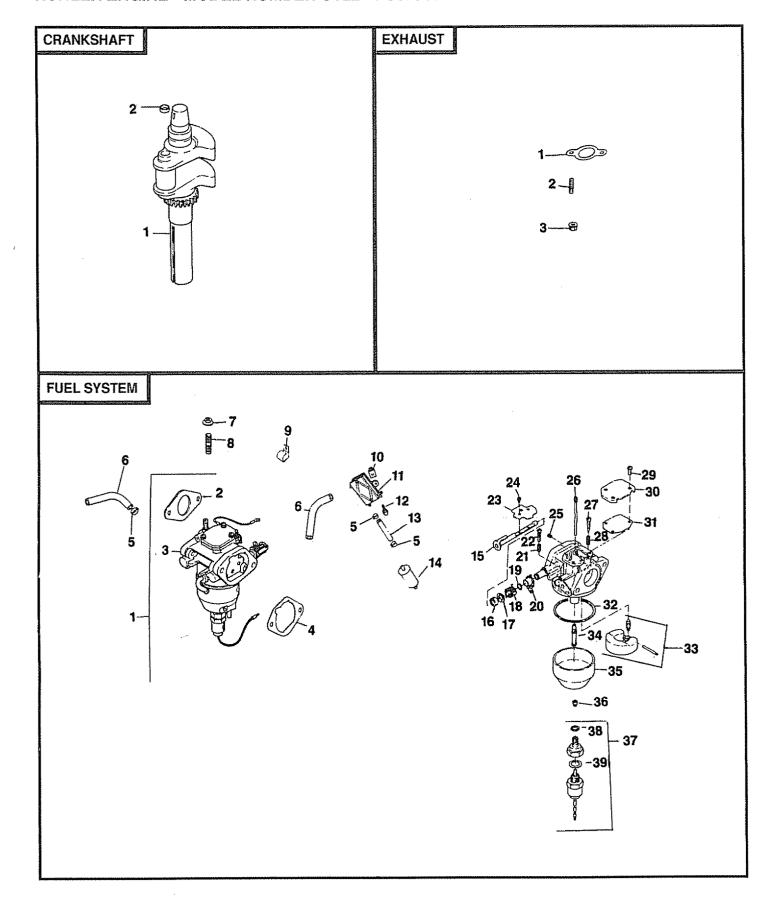
KEY NO.	PART NO.	DESCRIPTION
1	M-0839070	Screw M8 x 1.25 x 70
2	M-0839080	Screw M8 x 1.25 x 80
3	24 096 05	Cover, Pinion
4:	25 098 03	Starter Assembly (Includes 6-11)
5	12 468 01	Washer (2)
6	12 755 54	Kit, Drive End
7	12 227 06	Cap, Drive End
8	45 170 03	Armature
9	82 755 28	Kit, Brush and Spring
10	12 227 11	Cap, Commutator End
11	12 086 25	Bolt, Thru (2)

ENGINE CONTROLS

KEY NO.	PART NO.	DESCRIPTION
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 21 22 23	SM-0642025 24 090 14 SM-0641060 24 089 01 25 158 08 24 079 04 25 158 11 24 126 13 24 089 03 M-0547050 SM-0545016 M-0446030 SM-0645016 12 237 01 SM-0545016 24 090 07 24 468 01 24 090 13 24 090 05 24 079 05 SM-0545020 41 468 03 M-0401025 24 089 18	Screw M6 x 1.0 x 25 Lever, Governor Nut M6 x 1.0 Spring, Linkage Bushing, Linkage Retaining Linkage, Throttle Bushing, Throttle Linkage Bracket, Control Spring, Choke Return Nut M5 x 0.8 Screw M5 x 0.8 x 16 Nut, Hex M4 x 0.7 Screw M6 x 1.0 x 16 (4) Clamp, Cable (2) Screw M5 x 0.8 x 16 (2) Lever, Throttle Actuator Washer (3) Lever, Throttle Control Lever, Choke Linkage, Choke Screw M5 x 0.8 x 20 Washer, Wave Screw M4 x 0.7 x 24 Spring, Governor

NOTE: All component dimensions given in U.S. inches 1 inch = 25.4 mm

TRACTOR - - MODEL NUMBER 917.251551

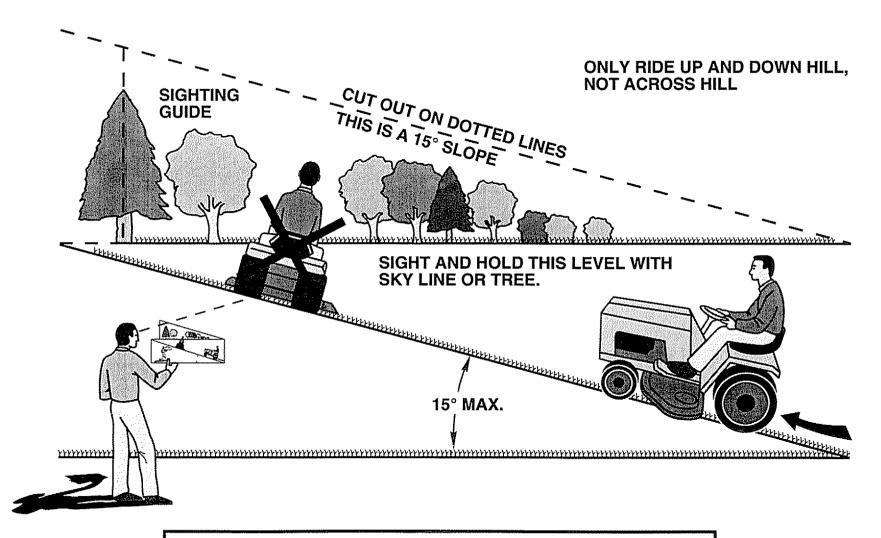


TRACTOR - - MODEL NUMBER 917.251551

FUEL SYSTEM		CRANK	KSHAFT		
KEY PART NO. NO.	DESCRIPTION	KEY PA		DESCRIPTION	
1 24 853 25	Kit, Carburetor with Gasket (Includes Key Numbers 2 thru 4)		4 014 72 2 139 09	Crankshaft Plug, Cup	
2 24 041 15 3 24 053 25	Gasket, Carburetor Carburetor Assembly (For Information Only, Not Available Separately) (Includes 15-39)	EXHAU			
4 24 041 14 5 X-426-9	Gasket, Air Cleaner Base Clamp, Hose (6)	KEY P.		DESCRIPTION	
6 24 353 03 7 SM-0641060 8 M-0629095	Line, Fuel, 10-5/8" (2) Nut M6 x 1.0 (2) Stud M6 x 1.0 x 95 (2)		4 041 02 1-0829033	Gasket, Exhaust (2) Stud, Exhaust Manifold	
9 47 154 01 10 24 100 01 11 24 393 04	Clip, Cable Nut, Plastic (2) Pump, Fuel, Pulse	3 M-0841080	M8 x 1.25 x 20 (4) Nut, Muffler Mounting		
12 24 086 12 13 25 353 03	Screw, Hex Cap Head (2) Line, Fuel, 13-1/2"		LUSTRATEI 4 755 03	M8 x 1.25 (4) Gasket Set	
14 25 050 02 15 24 144 15 16 24 468 05	Filter, Fuel Shaft, Choke Washer	R	IPM Settings:	Low Speed: 1150-1650 High Speed: 3200-3400	
16 24 468 05 17 24 241 01 18 24 089 22 19 24 141 04 20 24 090 10 21 24 089 24 22 24 086 19 23 24 462 02 24 24 086 20 25 24 337 27 26 24 337 11 27 24 086 22 28 24 089 23 29 24 086 21 30 24 096 13 31 24 041 18 32 24 041 19 33 24 757 05 34 24 369 01 35 24 234 01 36 24 337 28 37 24 755 15 38 24 041 21 39 24 041 20 NOT ILLUSTRATE	6 24 468 05				
24 757 06 24 755 72 24 755 73	Kit, Carburetor Repair Kit, High Altitude (1500-3000 Meters) Kit, High Altitude (Over 3000 Meters)				

SERVICE NOTES

SUGGESTED GUIDE FOR SIGHTING SLOPES FOR SAFE OPERATION





Operate your Tractor up and down the face of slopes (not greater than 15°), never across the face. Make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.

SEARS

OWNER'S MANUAL

MODEL NO. 917.251551

IF YOU NEED REPAIR SERVICE OR PARTS:

FOR REPAIR SERVICE, CALL THIS TOLL FREE NUMBER:

1-800-4-REPAIR (1-800-473-7247)

FOR REPLACEMENT PARTS
INFORMATION AND
ORDERING, CALL THIS
TOLL FREE NUMBER:

1-800-FON-PART (1-800-366-7278)

CRAFTSMAN

22.5 HP TWIN CYLINDER ELECTRIC START 50" MOWER 6 SPEED TRANSAXLE GARDEN TRACTOR

Each tractor has its own model number. Each engine has its own model number.

The model number for your tractor will be found on the model plate located under the seat.

The model number for your engine will be found on the blower housing of the engine.

All parts listed herein may be ordered from any Sears, Roebuck and Co. Service Center/Department and most Retail Stores.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

- PRODUCT TRACTOR
- MODEL NUMBER 917.251551
- ENGINE MODEL NO. CV22-67515
- PART NUMBER
- PART DESCRIPTION

Your Sears merchandise has added value when you consider Sears has service units nationwide staffed with Sears trained technicians... professional technicians specifically trained to insure that we meet our pledge to you, we service what we sell.

154441 Rev. 2 03.28.96 JH/RH .

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